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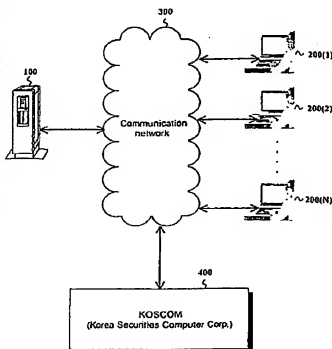
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(54) Title: CYBER TRADING SERVICE DEVICE AND METHOD FOR ANALYZING BUY QUANTITY



(57) Abstract: Disclosed is a cyber trading service method for providing a cyber trading service according to requests by a plurality of client PCs. When a user selects a buy order screen through a cyber trading system in the client PC, a cyber trading system transmits stock price information to the corresponding client PC. The cyber trading system receives a user's account number from the client PC, inputs an amount of previously deposited money to a previously established calculation program to calculate a buy price list, outputs calculation results to the corresponding client PC, receives the user's issue code and buy price from the client PC, inputs the corresponding issue's standard price and buy price to the previously established calculation program to calculate a quantity list, and outputs calculation results to the corresponding client PC. Therefore, the present invention reduces the transaction ordering steps according to selection by the user.

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Cyber Trading Service Device and Method for Analyzing Buy Quantity**BACKGROUND OF THE INVENTION****(a) Field of the Invention**

5 The present invention relates to a cyber trading device and method having a buy quantity analysis function. More specifically, the present invention relates to a cyber trading device and method having a buy quantity analysis function for enabling an investor to automatically receive buy price volume and buy quantity results without performing any calculation in the stage of buying stocks, and to easily input a buy order.

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(b) Description of the Related Art

 In stock trading, on-line cyber trading has greatly increased as communication technologies and computation programs have developed. In Korea, over 80% of traders already do daily trading, and this kind of cyber trading is also expected to gradually increase in foreign countries.

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 Cyber trading will continue to increase since it has many merits such as easy access through a use of a personal computer, provision of various categories of stock information, real-time reference of stock quotations, and quick buy and sell orders. Accordingly, frequencies of buying and selling the stocks have greatly increased, which is caused by synchronization of world-wide stock markets, increase of daily trading, and convenience of buy and sell orders using a computer.

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 Stock buying and selling has a sequential cycle of: stock price analysis → buy order → stock price analysis → profit and loss analysis →

sell order. The buy stage in more detail has: analysis of stock prices (rise and fall rates of stock prices, and ups and downs widths of stock prices) --> determination of buy price volume --> determination of buy prices --> calculation of buy volume --> inputting of buy order --> buy conclusion.

5 When a number of stocks to buy and sell increases, an investor needs to repeat the above-noted buy stages frequently, and accordingly, calculation amounts and input tasks of buy orders increase.

 However, in spite of changes of stock trading environments that require much increased frequencies of buying and selling and many order
10 inputting tasks, conventional cyber trading systems lack information that is provided to the investors in the buy stage, and hence, the investors daily and personally execute various kinds of computations, and have trouble in inputting the orders since the ordering process is performed manually. As a result, the investors spend much more time than required, exhaust mental
15 energies, incorrectly calculate stock prices and corresponding quantities, and manually issue buy and sell orders. Also, because of the same reasons, the conventional systems fail to guarantee quick cyber trading.

Conventional problems in each stage of stock buy are as follows:

1) Stock price analysis stage: Price information lists are not provided
20 to the investors. Conventional cyber trading does not provide price lists at the time of simultaneous bids and offers, and displays 10 quotations within a disclosure range when the market is open. Also, the conventional cyber trading does not provide advance-decline ratios (ADR) and advance-decline depth at the time of simultaneous bids and offers, and it only provides a

single ADR and an advance-decline depth with respect to the current price when the market is open. Therefore, the investor needs to calculate the stock prices such as the ADR and advance-decline depth by himself, and since he can only calculate a single stock price at one time, he cannot wholly
5 determine the stock prices.

2) Buy price determination stage: The investor synthetically checks to what ADR and advance-decline depth the buy price selected corresponds, and determines an adequate buy price. However, since the investor cannot know the entire stock price lists, the ADR, and the advance-decline depth, he
10 fails to synthetically determine the stock prices.

3) Buy money and buy quantity calculation stage: The conventional cyber trading does not provide a calculation service of how much or what percent of entrusted money in a stock account the investor will use to buy desired stocks, or a systematic calculation service for calculating the buy
15 quantity according to the buy money and buy price. Therefore, in the case of a diversified investment to multiple issues, the investor needs to split previously deposited money, calculate the quantity by dividing the buy money by buy price, and recalculate the above-noted calculations when the buy money or buy price is changed.

20 4) Buy order stage: The inputting process of buy price and buy quantity in the conventional buy order is manually executed by the investor using a mouse and a keyboard, which causes inaccuracy and burden. This stage is also problematic in that the investor may mistakenly input the buy price and buy quantity as incorrect numbers, it may need dozens of

manipulations of the mouse and the keyboard, and it may require an inputting time of greater than 10 seconds. The investor may need to check whether the inputting process is correct, and they may not achieve correct buy information generated by the input values, so the economic and mental loss and cost of inputting the orders hundreds of times each day may consequently increase. Further, since the investor uses the identical inputting process for buy-order correcting orders and buy-order canceling orders, the same problems can be generated.

5) Profit and loss analysis stage: After inputting the buy price and buy quantity, the investor cannot previously estimate before buying the stocks how much he will gain or lose with respect to respective stock values when the actual transaction is performed. The investor can only know the profit and loss results after buying the stocks, and cannot simulate the profit and loss using the buy price and quantity before buying the stocks. Therefore, since the conventional method does not have the concept of before-buy profit and loss for each stock, the investor cannot determine the after-buy profit and loss for respective stocks in advance.

As a result, the investor suffers inconvenience and inaccuracy in the above-described respective stages, many times.

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SUMMARY OF THE INVENTION

It is an object of the present invention to provide a cyber trading service device and method having a buy quantity analysis function for

performing stages of 1) stock price analysis, 2) buy price analysis, 3) buy quantity analysis, 4) buy ordering, and 5) profit and loss analysis, according to an investor's selection, through one or two clicks of a mouse in one to three seconds.

5 In one aspect of the present invention, a cyber trading service device for providing cyber trading services according to requests by a plurality of client PCs (personal computers), comprises: a main controller for calculating a buy price list when a buy price calculation request is received from a corresponding client PC, and calculating a quantity list and outputting
10 calculation results data when a calculation request signal on the quantity list is received; and a quantity list calculator for dividing a previously deposited money amount by percent (%) to calculate the buy price list when the amount of previously deposited money is received through the main controller, and calculating the quantity list that is buy information for
15 respective stock prices from the corresponding issue's standard price and buy price and outputting corresponding calculation results to the corresponding client PC when the user's issue code and buy price are input.

 In another aspect of the present invention, a cyber trading service device for receiving stock information from a securities corporation's server
20 and providing the cyber trading service comprises: a quantity calculation program storage unit for calculating a quantity list using a corresponding issue's standard price and buy price; a CPU for controlling to load a corresponding program in the quantity calculation program storage unit to an

inner main memory, execute it, and output calculation results of the quantity list; and a display for displaying the calculation results output by the CPU, to a user.

In still another aspect of the present invention, a cyber trading service method for providing the cyber trading service according to requests by a plurality of client PCs, comprises: transmitting stock price information to a corresponding client PC when a user selects a predetermined issue on a buy order screen through a cyber trading system in the client PC; receiving the user's account number from the client PC, inputting the amount of previously deposited money to a previously established calculation program to calculate a buy price list, and outputting calculation results to the corresponding client PC; and receiving the user's issue code and buy price from the client PC, and inputting the corresponding issue's standard price and buy price to the previously established calculation program to calculate a quantity list, and outputting calculation results to the corresponding client PC.

In further another aspect of the present invention, a cyber trading service method for receiving stock information from a securities corporation's server and providing the cyber trading service, comprises: (a) a CPU displaying stock price information on a buy order screen when a user logs in to a cyber trading system in a client PC; (b) the CPU receiving previously deposited money information from the securities corporation's server when the user selects a buy price calculation on the buy order screen, using a corresponding calculation program to calculate a buy price list, and

displaying the buy price list in a buy price list window; (c) the CPU using a corresponding calculation program to calculate the buy quantity corresponding to a stock price list and a stock price, and displaying it in a quantity list window when the user selects a predetermined price in the buy price list window; (d) the CPU setting a selected stock price to be a buy price, the corresponding quantity to be a buy quantity, and automatically and concurrently inputting them in a buy order blank when the user selects a predetermined stock price in the quantity list window; and (e) the CPU using a corresponding calculation program to calculate the profit and loss analysis for each stock price and displaying the same in the quantity list window when the user selects a predetermined stock price in the quantity list window.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate an embodiment of the invention, and, together with the description, serve to explain the principles of the invention:

FIG. 1 shows a configuration block diagram of a cyber trading service device according to a first preferred embodiment of the present invention;

FIG. 2 shows a configuration of a quantity analysis system of a cyber trading system according to the first preferred embodiment of the present invention;

FIG. 3 shows a detailed configuration of a quantity calculation program database of the quantity analysis system according to the first preferred embodiment of the present invention;

5 FIG. 4 shows a configuration of a cyber trading system in a client PC (personal computer) of the cyber trading service device according to a preferred embodiment of the present invention;

FIG. 5 shows a buy order screen of the cyber trading system in the client PC according to the first preferred embodiment of the present invention;

10 FIGS. 6(a) to 8(c) show an operation flowchart of a cyber trading service method according to the preferred embodiment of the present invention;

FIG. 9 shows a configuration block diagram of a cyber trading service device according to a second preferred embodiment of the present invention;

15 FIG. 10 shows a cyber trading system in the client PC according to the second preferred embodiment of the present invention;

FIG. 11 shows a detailed block diagram of a quantity calculation program storage unit of FIG. 10;

20 FIGS. 12(a) to 15 show an operation flowchart of the cyber trading service device according to the second preferred embodiment of the present invention;

FIG. 16 shows an exemplified buy price list calculated by the cyber trading system;

FIGs. 17(a) to 17(k) show an exemplified quantity list calculated by the cyber trading system;

FIG. 18 shows an exemplified buy order screen according to the preferred embodiment of the present invention, showing a buy price list, a quantity list, and a buy order input window; and

FIG. 19 shows a comparison between a conventional buy order method and an improved buy order method according to the preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

In the following detailed description, only the preferred embodiment of the invention has been shown and described, simply by way of illustration of the best mode contemplated by the inventor(s) of carrying out the invention. As will be realized, the invention is capable of modification in various obvious respects, all without departing from the invention. Accordingly, the drawings and description are to be regarded as illustrative in nature, and not restrictive.

FIG. 1 shows a configuration block diagram of a cyber trading service device according to a first preferred embodiment of the present invention.

As shown, the cyber trading service device comprises: a plurality of client PCs 200(1) to 200(N); a communication network 300; and a quantity analysis system 100.

A securities corporation installs an exclusive-use emulator or a web browser for cyber trading in the client PCs 200(1) to 200(N) through the communication network 300 or a compact disk (CD). When the exclusive-use emulator or the web browser is executed, the client PCs 200(1) to 200(N) are
5 connected to the quantity analysis system 100, and when each user selects a quantity calculation button on a buy order screen, an issue code and a buy price are output to the quantity analysis system 100 through the communication network 300. The client PCs receive a quantity list from the quantity analysis system 100, and it is displayed on a buy order screen on
10 the client PC 200.

The communication network 300 connects communication cables between the client PCs 200(1) to 200(N) and the quantity analysis system 100 of each securities corporation so as to transmit and receive data of a quantity list. When an issue code and a buy price are input through the buy
15 order screen of each client PC according to each user's quantity calculation selection, the quantity analysis system 100 inputs a basic value and the buy price to a previously established calculation program to calculate the quantity list, and outputs the calculation results to the corresponding client PC.

FIG. 2 shows a configuration of the quantity analysis system 100 of
20 the cyber trading system according to the first preferred embodiment of the present invention.

Referring to FIG. 2, the quantity analysis system 100 comprises: a main controller 110; a communication controller 120; a client information database 130; an account information database 140; a stock price

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information database 150; a management program input unit 160; a quantity calculation program database 170; and a quantity list calculator 180.

The communication controller 120 performs wire and wireless communication related to quantity lists between the client PC 200(1) to 200(N) and the quantity analysis system 100. When an account number, an issue code, and a buying price according to each user's selection of quantity calculation are input, the communication controller 120 receives data and transmits the data to the main controller 110, and outputs a quantity list to the corresponding clients PC(200(1), ..., 200(N)) through the communication network 300 according to control by the main controller 110. The main controller 110 determines whether the account number, the issue code, and the buying price according to each client PC user's selection of quantity calculation are input on the basis of a management program input through the management program input unit 160.

Also, the main controller 110 uses corresponding programs of the quantity calculation program database 170, the account information database 140, and the corresponding data of the stock price information database 150, each input through the management program input unit 160, to drive the quantity list calculator 180 to calculate the quantity list and control to output calculation data. The client information database 130 provides the main controller 110 with data needed for determining registered user states at the time of logging in. The account information database 140 for storing information on the user's previously deposited money provides an

available buying price to the quantity list calculator 180. The stock price information database 150 transmits the standard price of the corresponding item to the quantity list calculator 180.

The management program input unit 160 inputs various
5 management programs and a quantity list calculation program related to the cyber stock trading used at the main controller 110 by a manager of the quantity analysis system 100. A calculation program of the quantity calculation program database 170 is transmitted to the quantity list calculator 180 according to instructions by the main controller 110. Various calculation
10 programs of the quantity calculation program database 170 have built-in commission rates and break-even point rates, and a process for receiving other parameters (e.g., a standard price and a buying price) and calculating them will be described below. The quantity list calculator 180 uses calculation programs and input parameters to perform calculation according
15 to control by the main controller 110. In the calculations, the corresponding calculation program of the quantity calculation program database 170 input by the management program input unit 160, the buying price, and the standard price of the corresponding item input by the stock price information database 150 are used to calculate the quantity list, and the calculation
20 results are transmitted to the main controller 110.

FIG. 3 shows a block diagram of the quantity calculation program database 170 of the quantity analysis system 100 according to the first preferred embodiment of the present invention. The quantity calculation program database 170 of the quantity analysis system 100 comprises a buy

price calculation program 170a and a quantity calculation program 170b, and additional units may be added, removed, or modified if needed.

Operations of the respective calculation programs of the quantity calculation program database 170 are as follows. The buy price calculation
5 program 170a of the quantity calculation program database 170 calculates a volume list of the buy price using the amount of previously deposited money (buying money) of account information, outputs a percent list having a range from 1 to 100%, and multiplies the buying money by the percent to output a
buy money list for the respective percents (In the case the buying money is
10 7,500,000 Won, the buy price becomes 7,500,000, 7,425,000, 7,350,000, ..., 150,000, 75,000 Won).

The quantity calculation program 170b calculates a buyable quantity for each stock price, and other information (commission, commission rates, break-even points, and break-even differences) according to a stock price list
15 (including ADR and advance-decline depth) to which nominal prices from the highest limit to the lowest limit of corresponding issues are applied, by using the input items including the standard prices of the corresponding issues and the buy prices. The calculation process includes 1) calculating the highest limit price and the lowest limit price with reference to the standard price of
20 the corresponding issue, and applying the nominal prices from the highest to lowest limit prices to produce a stock price list, 2) dividing the respective stock prices of the stock price list by the standard price to produce the ADR, 3) subtracting the standard price from the respective stock prices of the stock price list to produce the advance-decline depth, 4) dividing the buy prices by

the respective stock prices to calculate the buyable quantity, 5) multiplying the stock price by the buy quantity to produce the actual buy price, 6) multiplying the actual buy price by the commission rate, and adding a default commission to the multiplied results to produce the commission, 7) dividing the commission by the actual buy price to produce the commission rate, 8) multiplying the stock price by the break even point rate to produce the break even point, and 9) subtracting the stock price from the break even point to produce the break-even difference. In the case of nations where stock prices have no highest and lowest limit prices, the stock price list is produced with reference to values (e.g., $\pm 20.0\%$, $-10.0 \sim +30.0\%$) set by the user.

FIG. 4 shows a cyber trading system 200 in a client PC in a cyber trading service device according to the preferred embodiment of the present invention.

Referring to FIG. 4, the cyber trading system 200 in the client PC comprises a central processing unit (CPU) 210; a communicator 220; a cyber trading program storage unit 230; and a buy order screen 240.

The communicator 220 performs wire and wireless communication, related to production of a quantity list, between the client PCs 200(1) to 200(N) and the quantity analysis system 100. The communicator 220 outputs an account number, an issue code, and a buy price resulting from each user's selecting the quantity calculation button of the quantity analysis system 100, and receives the quantity list from the quantity analysis system 100.

The CPU 210 controls to output the account number, the issue code,

and the buy price according to the user's selection of the quantity calculation button. Also, the CPU 210 displays the quantity list data input by the quantity analysis system 100 through the communicator 220, in a quantity list window.

5 The cyber trading program storage unit 230 stores a cyber-trading-only emulator program, automatically downloaded from the quantity analysis system 100 after log-in.

The buy order screen 240 displays a quantity list according to control by the CPU 210, and outputs the buy quantity and buy unit-cost data input by the user for buying desired stocks to the quantity analysis system 100.

10 FIG. 5 shows an exemplified buy order screen 240 of the cyber trading system 200 in the client PC according to the first preferred embodiment of the present invention.

The buy order screen 240 of the cyber trading system 200 comprises: a buy price calculation button 240a; a buy price list window 240b; 15 a buy price input blank 240c; a quantity calculation button 240d; a quantity list window 240e; a buy quantity input blank 240f; a buy unit-cost input blank 240g; and a nominal price information window 240h.

In this instance, the buy price calculation button 240a of the buy order screen 240 enables division of the amount of previously deposited 20 money of the user's stock account into 100 1% units to calculate the same. The buy price list window 240b displays the list of the amount of previously deposited money divided into 100 1% units. The buy price input blank 240c receives corresponding values when the user directly inputs the buy price

through a keyboard or selects a predetermined value of the buy price list window 240b. The quantity calculation button 240d is an instruction button for calculating the buyable quantity for each stock with reference to the price of the buy price input blank 240c. The quantity list window 240e displays the
5 quantity list for each stock calculated according to the instruction by the quantity calculation button 240d. When the user selects a predetermined row in the quantity list window 240e, the buy quantity input blank 240f and the buy unit-cost input blank 240g automatically and concurrently receive the row's stock price and quantity. The nominal price information window 240h
10 displays stock price information including the corresponding issue's standard price, nominal price, and buy and sell quantity for each nominal price.

With reference to the drawings, an operation of the cyber trading service device and method according to the first preferred embodiment of the present invention will now be described in detail.

15 FIGs. 6(a) to 8(c) show flowcharts for the cyber trading service method according to the preferred embodiment of the present invention.

As shown, when the user executes a cyber-trading-only emulator or a web browser in the client PC 200(1), the client PC 200(1) accesses the quantity analysis system 100 of each securities corporation through the
20 communication network 300 in step S1.

After accessing the quantity analysis system 100, the client PC 200(1) displays a log-in screen output by the quantity analysis system 100 in step S2.

The client PC 200(1) outputs the ID and the password input by the user to the quantity analysis system 100, and the main controller 110 of the quantity analysis system 100 determines whether the ID and the password are matched with the data registered to the client information database 130.

5 When the user is found to be a registered user after said determination, the main controller 110 outputs a main screen in step S3.

After this, when the user selects the buy order screen 240 and inputs (or selects) an issue number of a desired stock (including stocks, futures, and options) to the client PC 200(1), the CPU 210 periodically receives

10 information on the prices (including standard prices, nominal prices, sell/buy prices, etc.) of the issues from the quantity analysis system 100, and displays it on the nominal price information window 240h in step S4.

The above steps S1 to S4 correspond to a conventional cyber trading method.

15 Under this status, the CPU 210 determines whether the user directly inputs the buy price to the buy price input blank 240c through the keyboard or selects the buy price calculation button 240a in step S5. When it is found that the user directly inputs the buy price to the buy price input blank 240c, the CPU 210 receives the input buy price in step S6.

20 Referring to FIGs. 7(a) and 7(b), when the user selects the buy price calculation button 240a so as to know the list of the amount of previously deposited money and the buy price of divided amount of previously deposited money in step S7, the CPU 210 outputs a buy price calculating key signal and the user's account number data to the quantity analysis

system 100 in step S8a.

The main controller 110 of the quantity analysis system 100 determines whether the buy price calculating key signal and the user's account number data are input from the client PC 200(1) through the communication controller 120 in step S8b.

When the key signal is found to be input at the time of calculating the buy price after the determination, the main controller 110 transmits the buy price calculation program 170a of the quantity calculation program database 170 to the quantity list calculator 180 in step S8c, transmits the amount of previously deposited money of the account information database 140 to the quantity list calculator 180 in step S8d, and instructs the quantity list calculator 180 to execute a corresponding calculation in step S8e.

Next, the quantity list calculator 180 inputs the amount of previously deposited money to the buy price calculation program 170a according to the calculation instruction from the main controller 110 in step S8f, and divides the amount of previously deposited money into units of from 100 to 1% in 1% graduations in step S8g. (That is, the amount of the previously deposited money is multiplied by 100%, 99%, 98%, ..., 3%, 2%, 1% to produce the volume of the buy price per percent.) The division units may be variously applied according to the values (e.g., 1% graduations, 2% graduations, ranges of between 20 and 50%, or between 30 and 100%) set by the user, or the amount of the previously deposited money may be redefined per 1,000/10,000 Won.

The quantity list calculator 180 transmits a calculation completion signal and calculated buy price list data to the main controller 110 in step S8h.

When receiving the calculation completion signal and the buy price
5 list from the quantity list calculator 180 in step S8i, the main controller 110 outputs the buy price list data to the client PC 200(1) through the communication controller 120 in step S8j.

When the buy price list data are input to the client PC 200(1) from the quantity analysis system 100 in step S8k, the CPU 210 of the client PC
10 displays the input buy price list data to the buy price list window 240b of the buy order screen 240 in step S8l.

Next, when the user synthetically handles the percentages and the buy prices per percent of the buy price list window 240b to determine the buy price, (or to complete making a volume decision), and selects a
15 predetermined line (a row, percent, and buy price) of the buy price list window so as to input the determined buy price in step S9, the CPU 210 inputs the selected buy price to the buy price input blank 240c, and highlights the corresponding line in step S10.

Here, the user can modify the buy price of the buy price input blank
20 240c to other values using a spin button or a keyboard.

Next, referring to FIGs. 8(a) to 8(c), when the user selects the quantity calculation button 240d of the buy order screen 240 in step S11, the CPU 210 outputs a quantity calculating key signal, an issue code, and buy price data of the buy price input blank 240c to the quantity analysis system

100 in step S12a.

The main controller 110 of the quantity analysis system 100 determines whether a quantity calculating key signal, an issue code, and buy price data are input from the client PC 200(1) through the communication
5 controller 110 in step S12b.

When the quantity calculating key signal is input after the determination, the main controller 110 transmits the quantity calculation program 170b of the quantity calculation program database 170 to the quantity list calculator 180 in step S12c, transmits the standard price of the
10 corresponding issue of the quantity calculation program 170b to the quantity list calculator 180 in step S12d, transmits the buy price input from the client PC to the quantity list calculator 180 in step S12e, and instructs the quantity list calculator 180 to execute the corresponding calculation in step S12f.

Next, the quantity list calculator 180 inputs the standard price and
15 the buy price to the quantity calculation program 170b according to the calculation instruction from the main controller 110 in step S12g, calculates the highest and lowest limit values using the corresponding issue's standard price in step S12h, and calculates a stock price list by applying the nominal prices from the highest limit value to the lowest limit value in step S12i. Next,
20 the quantity list calculator 180 divides the respective stock prices of the stock price list produced in the previous step S12i by the standard price to calculate the ADR list for the respective stock prices in step S12j, subtracts the standard price from the respective stock prices of the stock price list to calculate a per-stock advance-decline depth list in step S12k, and divides the

buy price input from the client PC by the respective stock prices of the stock price list to calculate the buyable quantity for each stock price in step S12l.

Next, the quantity list calculator 180 multiplies the buyable quantity by the stock price of the stock price list to calculate the actual buy price for each stock price in step S12m, multiplies the actual buy price by the commission rate according to the volume of transaction money, adds the default commission to the multiplied value to calculate the commission for each stock price in step S12n, divides the commission by the actual buy price to calculate the commission rate in step S12o, multiplies the stock price by the break-even point rate to calculate the break-even point for each stock price in step S12p, and subtracts the stock price from the break-even point to produce the break-even difference for each stock price in step S12q, and thence the calculation is completed.

When the calculation is completed, the quantity list calculator 180 transmits a calculation completion signal and quantity list data (including the stock prices, ADRs, advance-decline depths, actual buy prices, commission (rates), and break-even point (break-even difference) lists) to the main controller 110 in step S12r.

When receiving the calculation completion signal and the quantity list data from the quantity list calculator 180 in step S12s, the main controller 110 outputs the quantity list data to the client PC 200(1) through the communication controller 120 in step S12t.

When the quantity list data are input to the client PC 200(1) from the quantity analysis system 100 in step S12u, the CPU 210 of the client PC

200(1) displays the input quantity list data to the quantity list window 240e of the buy order screen 240 in step S12v.

Next, a process for the user to synthetically analyze the stock prices, ADRs, and advance-decline depths; select a desired buy price; and input a buy order while the stock price and the buy quantity are displayed in the quantity list window 240e will be described.

The CPU 210 determines whether the user selects (or clicks twice) a predetermined row of the quantity list window 240e so as to input a buy order in step S13.

When the user is found to select the predetermined row of the quantity list window 240e after the determination, the CPU 210 automatically inputs the stock price of the row selected by the user in the input blank 240g, and automatically inputs the quantity of the row selected by the user in the buy quantity input blank 240f at the same time in step S15. Accordingly, by the user's selecting the predetermined row using a mouse, the buy unit-cost and the buy quantity needed for the buy order are concurrently and automatically input.

The CPU 210 highlights the selected row in the quantity list window 240e and the corresponding stock price in the nominal price information window 240h in step S16 (so that the user may easily and visually find the buy price and the position where the quantity is displayed.)

Next, when the user selects a buy order transfer button according to the user's final confirmation and determination, the CPU 210 outputs an

account number, a transaction password, an issue code, a buy unit cost in the buy unit cost input blank 240g, and buy quantity data in the buy quantity input blank 240f to the quantity analysis system 100 in step S17. Accordingly, the quantity analysis system 100 transmits them to the KOSCOM 400 and
5 outputs transaction conclusion results to the client PC.

A case when the user cancels or amends the input order will now be described. After the buy order is input, when the user selects an order cancel instruction of the right button of the mouse positioned on the row corresponding to the highlighted buy price in the quantity list window 240e or the nominal price information window 240h In step S18, the CPU 210
10 cancels the buy order matched with the corresponding price in step S19.

Also, when the user drags the row matched with the highlighted buy price in the quantity list window 240e or the nominal price information window 240h to a different price or selects a new price in step S20, the CPU
15 210 automatically inputs the selected price in the buy unit-cost input blank 240g, and when the user selects an order correction instruction, it sets the newly selected price as a correction price, and performs a buy correction order in step S21.

Accordingly, the user can correctly, quickly, and easily provide a buy
20 order while viewing the buy unit cost and buy quantity information, thereby having a more advantageous investment environment.

A second preferred embodiment for enabling the client PC's cyber trading system to calculate the quantity list by marginally modifying the first preferred embodiment for calculating the quantity list by a securities

corporation's quantity analysis system 100 will now be described.

In the second preferred embodiment, the client's PC's cyber trading system and not the securities corporations' quantity analysis system 100 calculates all of the quantity lists.

5 FIG. 9 shows a configuration of the quantity analysis system 100 according to the second preferred embodiment of the present invention. FIG. 9 corresponds to a system for providing information on the accounts and stock prices generally used by the securities corporations.

Referring to FIG. 9, the quantity analysis system 100 comprises a
10 main controller 110; a communication controller 120; a client information database 130; an account information database 140; and a stock price information database 150.

The communication controller 120 of the quantity analysis system
15 100 performs wire and wireless communication related to the information on the clients, dealing with accounts and stock prices, between the client PCs 200(1) to 200(N) and the quantity analysis system 100. The communication controller 120 outputs the user's account information (the previously deposited money amount) and stock price information (the standard price) data to the corresponding client PCs 200(1) to 200(N) through the
20 communication network 300. The main controller 110 controls information on the account of the stock price to output to the corresponding client PC. The client database 130 provides data needed for determining registered user states at the time of logging in. The account information database 140

provides the user's previously deposited money data. The stock price information database 150 stores stock price information including the corresponding issues' standard prices, current prices, nominal prices, buy and sell quantities for each nominal price, transaction volumes, highest and lowest limit values respectively input from the KOSCOM 400, and provides it to the client PC.

FIG. 10 shows a configuration of a cyber trading system 200 in the client PC according to the second preferred embodiment of the present invention.

10 The cyber trading system 200 in the client PC comprises a CPU 210; a communicator 220; a quantity calculation program storage unit 230; and a buy order screen 240.

The communicator 220 performs wire and wireless communication related to information on the accounts and stock prices between the client PC and the quantity analysis system 100. The communicator 220 receives previously deposited money data according to the user's referring to the amount of previously deposited money, and a corresponding issue's stock price information, and transmits them to the CPU 210. The CPU 210 1) controls to request and receive account information from the quantity analysis system 100, 2) displays stock price information, 3) calculates the buy price and the quantity list according to the user's request of calculating the buy price and the quantity list, 4) displays the buy price and quantity list data, and 5) executes a buy order. The quantity calculation program storage

unit 230 stores various programs for calculating the buy price, the quantity list and the profit and loss analysis automatically downloaded from the quantity analysis system 100 after log-in. The programs are not varied as long as the nominal price units, the depth of the highest and lowest limits, and the commission rates are not changed. Hence, once they are downloaded in the initial step, they do not need to be downloaded each accessing time. The buy order screen 240 displays the corresponding issue's stock price information, the buy price list and the quantity list information according to control by the CPU 210, and outputs the buy quantity and buy unit cost data input by the user to buy desired stocks, to the quantity analysis system 100.

FIG. 11 shows a configuration of the quantity calculation program storage unit 230 according to the second preferred embodiment of the present invention. The programs in the quantity calculation program storage unit 230 comprise: a buy price calculation program 230a; a quantity calculation program 230b; and a profit and loss analysis program 230c. The operation of the buy price calculation program 230a and the quantity calculation program 230b is identical with that of the buy price calculation program 170a and the quantity calculation program 170b, and therefore no operation of the corresponding programs will be described.

The profit and loss analysis program 230c analyzes various kinds of profit and loss, assuming that the quantity of the buy quantity input blank 240f is set to be a quantity, the stock price of the buy unit cost input blank 240g is set to be a buy price, and the stock price of the stock price list is set

to be a sell price. The process of analyzing the profit and loss includes 1) dividing the stock price of the stock price list by the buy price to calculate an earning rate for each stock price, 2) subtracting the buy unit price from the stock price to calculate a profit and loss degree, and 3) multiplying the profit and loss degree by the quantity to calculate a total profit and loss. Further, the profit and loss analysis program 230c may include calculations of: the commission for each stock price (i.e., (buy price + sell price) x commission rate); the commission rate (i.e., commission / (buy price + sell price)); the net profit or loss (i.e., total profit or loss - commission); the net profit or loss rate for each stock price (i.e., (total profit or loss - commission) / total buy price); the total sell price (i.e., stock price x quantity); and the total sell rate (i.e., total sell price / total buy price). The profit and loss analysis method can calculate the profit and loss for each stock price after the user selects the buy unit cost and the buy quantity.

15 A process for the cyber trading service device to calculate a buy price list, a quantity list, and a profit and loss analysis according to the second preferred embodiment of the present invention will now be described.

Referring to FIG. 12(a), a client PC 200(1) accesses each securities corporation's quantity analysis system 100 through the communication network 300 in step T1. The client PC displays a log-in screen and outputs an ID and a password to the quantity analysis system 100 in step T2. In the case the user is a registered one, the quantity analysis system 100 outputs the most recent cyber trading program and the CPU 210 stores the

downloaded quantity calculation program in the quantity calculation program storage unit 230 in step T3.

When the user selects the buy order screen 240 on the client PC 200(1), the CPU 210 displays the buy order screen 240, and when the user
5 inputs (or selects) an issue code, the CPU 210 periodically receives stock price information from the stock price information database 150 of the quantity analysis system 100 and displays it in the nominal price information window 240h in step T4. The steps of T1 to T4 are well known to skilled persons and accordingly no further corresponding description will be
10 provided.

Next, a process for calculating the buy price list and the quantity list through the cyber trading system of the client PC 200(1) will be described.

Referring to FIG. 12(b), under this state, the CPU 210 determines whether the user directly inputs the buy price in the buy price input blank
15 240c through a keyboard or selects the buy price calculation button 240a in step T5. When it is found from the determination that the user directly inputs the buy price in the buy price input blank 240c, the CPU 210 receives the input price in step T6.

Referring to FIG. 13, when it is found that the user selects the buy
20 price calculation button 240a in step T7, the CPU 210 outputs user account number data to the quantity analysis system 100 in step T8a. When a request for account information (or amount of previously deposited money) is input, the quantity analysis system 100 outputs the user's previously deposited money data of the account information database 140 to the client

PC 200(1) in step T8c. The options of directly inputting the buy price through a keyboard or selecting the buy price calculation button are provided for improving the user's convenience.

Next, when account reference (or previously deposited money) data
5 are input to the client PC 200(1) from the quantity analysis system 100 in step T8d, the CPU 210 calls the buy price calculation program 240a from the quantity calculation program storage unit 230, and inputs the amount of previously deposited money to the buy price calculation program 240a to calculate a buy price list in step T8e. Since this calculation is matched with
10 that executed by the quantity list calculator 180 of the quantity analysis system 100, no further detailed description will be described.

When the calculation is finished, the CPU 210 displays the calculated data in the buy price list window 240b in step T8f.

Next, when the user selects a predetermined line (row, percent, buy
15 price) on the buy price list 240b so as to know the buyable quantity for each stock price according to the buy price in step T9, the CPU 210 inputs the selected buy price in the buy price input blank 240c and highlights the corresponding line on the buy price list in step T10.

After this, referring to FIG. 14, when the user selects the quantity
20 calculation button 240d of the buy order screen 240 in step T11, the CPU 210 calls the quantity calculation program 240b from the quantity calculation program storage unit 240 in step T12a, and the corresponding issue's standard price from the nominal price information window 240h in step T12b.

The CPU 210 then calculates the quantity list (stock prices, ADRs, advance-decline depths, commissions, commission rates, break-even points, and break-even differences). Since this calculation is matched with that executed by the quantity list calculator 180 of the quantity analysis system 100 according to the first preferred embodiment of the present invention, no further detailed description will be provided.

When the calculation is finished, the CPU 210 displays the calculated data in the quantity list window 240d in step T12e.

Next, a process for inputting a buy order and analyzing the profit and loss will be described.

Referring to FIG. 12c, the CPU 210 determines whether the user synthetically checks the stock price, ADR, advance-decline depth and quantity, decides a desired buy price, and selects (or clicks twice using a mouse) a predetermined row of the quantity list window 240e to input a buy order in step T13.

When the user selects the predetermined row of the quantity list window 240e after the determination, the CPU automatically inputs the stock price on the row selected by the user in the buy unit cost input blank 240g, and at the same time, it automatically inputs the quantity on the row selected by the user in the buy quantity input blank 240f in step T15, and the CPU 210 highlights the row selected by the user in step T16.

Also, the CPU 210 executes the profit and loss analysis assuming that the quantity of the buy quantity input blank 240f is set to be a quantity, the stock price of the buy unit cost input blank 240g is set to be a buy price,

and the stock price of the stock price list is set to be a sell price.

The CPU 210 calls the profit and loss analysis program 230c from the quantity calculation program storage unit 240 in step T17a, and inputs the stock price list, the buy quantity, and the buy unit cost to the profit and
5 loss analysis program 230c in step T17b. Next, the CPU 210 divides the stock price of the stock price list by the buy price to calculate the earning rate for each stock price in step T17c, subtracts the buy unit cost from the stock price of the stock price list to calculate a profit and loss depth in step T17d, and multiplies the profit and loss depth by the quantity to calculate the total
10 profit or loss for each stock price in step T17e, and therefore, the corresponding calculation is finished.

When the calculation is finished in step T17f, the CPU 210 displays the calculated profit and loss analysis data (including the total profit and loss, the earning rate, and the profit or loss depth) in the quantity list window 240d
15 in step T17g. Therefore, since the user can previously check the changes of the total profit and loss varied for each price using the buy price and quantity before transmitting a buy order (i.e., without actually buying the stocks), the user can more correctly decide a buy opinion.

Further, the profit and loss analysis program 230c may include
20 calculations of: the commission for each stock price (i.e., (buy price + sell price) x commission rate); the commission rate (i.e., commission / (buy price + sell price)); the net profit or loss for each stock price (i.e., total profit or loss - commission); the net profit or loss rate (i.e., (total profit or loss - commission) / total buy price); the total sell price (i.e., stock price x quantity);

and the total sell rate (i.e., total sell price / total buy price) In addition to the total profit and loss, the earning rate, and the profit or loss depth.

Next, when the user selects a buy-order transmission button, the CPU 210 outputs buy order information to the quantity analysis system 100
5 in step T18. The process for canceling or correcting the order is matched with that of the first preferred embodiment in steps T19 to T21.

For reference, several data and calculation results applied to the embodiments of the present invention will now be described.

FIG. 16 shows an exemplified buy price list calculated by the quantity
10 analysis system 100 or the cyber trading system 200. In the case of an unpaid buy (or a credit order), the amount of previously deposited money becomes 100%, and the maximum credit buy becomes 250% (in the case of 2.5 times), and hence, the buy price list can be expanded. In the case of
desiring to buy a plurality of Issues, the user can divide the amount of
15 previously deposited money according to a predetermined percent and assign the divided money to buy the issues. Also, since the user can synthetically determine the percent of the previously deposited money of the list and the corresponding money, the user can more correctly and quickly
decide the buy price.

20 FIGs. 17(a) to 17(k) show exemplified quantity lists calculated by the quantity analysis system 100 or the cyber trading system 200. In regard to all the stock prices (the stock prices from the highest to lowest limits, the ADRs, and the advance-decline depths) in a day, the user can obtain core information (earning rate, profit and loss depth, and total profit and loss) on

the profit and loss, and trends for each stock price, varied according to respective values and mostly desired by the user, as well as the buyable quantity for each stock price, other additional information (including commission (rates) and break-even point (differences)). Therefore, by accurately obtaining the stock price information and the profit and loss information, the user can more effectively decide desired buy prices, automatically calculate the quantity according to the buy price volume, and visually check the trends of various profits and losses for respective price ranges to be generated according to selection of the buy price without calculation. Accordingly, the user can use the present embodiment as a scientific and quick tool for deciding whether to buy the desired stocks, such as restraining from buying stocks while their prices are rising, additional increasing/decreasing the buy price or quantity, and establishing limits for sale with a loss. That is, since the user can integrate various kinds of core information needed for the buy order into a point, the user can use more advanced stock investment environments. Also, the user completes the buy order by only selecting a predetermined line.

The quantity list can be edited and displayed in many various ways according to screen features or the user's requests. That is, a specific column or a specific data region can be calculated or displayed according to the user's requirements.

FIG. 18 shows an exemplified buy order screen 240 on which a buy price list according to an amount of previously deposited money, and a buy

quantity list per stock price with reference to a predetermined price (the buy price) from among many buy prices are provided, and the buy order according to selection of the buy price is automatically input through a simple operation. That is, since all calculation and information needed for the buy order is integrated and automatically displayed on the buy order screen 240, the user can finish the desired order through clicking the mouse twice.

FIG. 19 shows a comparison of the conventional buy order method to the Improved buy order according to the present invention. The improved points include the conveniences wherein the buy unit-cost and the quantity are automatically and concurrently input when the investor just clicks the mouse once, the accuracy improvements wherein the present invention completely removes incorrect inputting and mistyping of the buy unit-cost and the buy quantity, no necessity of checking correct input states after inputting data, minimization of the hand and eye operation, and minimization of operations and time caused by not using the keyboard.

The investor can complete the order by analyzing the stock price and the quantity in the quantity list, and selecting the desired buy price through one click of the mouse. Order correction and cancellation are also executed through one click of the mouse.

As described above, the cyber trading service device and method according to the embodiments of the present invention has the following merits.

1) Step 1 of determining the buy price volume: The investor can check the buy price list that includes the amount of subdivided previously

deposited money (including the orderable price and the credit order price) only through one click of the mouse, and by synthetically determining the percent and the corresponding price and selecting a specific price, the investor can fix it as the buy price.

5 2) Step 2 of analyzing the buy unit-cost: The investor can automatically check stock price information (including stock prices, ADRs and advance-decline depths) from the highest to lowest limits through a table format. Also, by synthetically checking the stock prices, ADRs and advance-decline depths, the investor experiences synergy effects and can more
10 accurately decide buy price regions.

3) Step 3 of calculating the buy quantity: By clicking the mouse once, the investor can automatically know the buyable quantity for each stock price according to the buy price.

4) Step 4 of the buy order: By clicking the mouse once on the
15 quantity list, the investor can automatically and concurrently input the buy quantity and the buy unit-cost, and execute the order. Also, the investor can easily execute cancellation or correction orders. The time required for the buy order is reduced to 1 to 3 seconds compared to the conventional required time of more than 10 seconds. Since incorrect data inputs of the
20 buy price and the buy quantity do not occur, undesirable loss is prevented. The present invention prevents the investor from mistyping the buy price and the buy quantity, and does not require the 10 keyboard inputs normally needed for inputting the desired price and quantity. Conventionally, the investor had to alternately look at the monitor and the keyboard more than

four times, and the investor can now only view the monitor. It is no longer required for the investor to finally check whether the buy quantity and the corresponding unit cost are accurately input before transmitting the order, to analyze buy-related information generated after the input of the order, and to alternately use the keyboard and the mouse for inputting numbers.

5 6) Simulation of the profit and loss analysis: The investor can use various profit and loss services for the respective stock prices using the buy unit cost and the buy quantity before transmitting the buy order, and accordingly, since the investor can check various profits and losses without actually buying the stocks, the investor can determine the volume and trends of the profit and loss and receive services for supporting buy and sell decisions such as restraining from buying stocks while their prices are rising, deciding to cancel the buy, additional increasing or reducing the buy price and quantity, modifying the buy price, previously determining the sell price, and determining the price of a sale with a loss. The conventional method
10 does not have the concept of profit and loss before the buy.
15

 6) Catching of additional information: The investor can more accurately decide the buy order through checking the commissions, the commission rates, the break-even points, and the break-even differences. In
20 the case of daily trading, when the investor sells the stocks with the price of over the buy price by one nominal price (one click or tick), the investor can previously check whether he earns or loses for each stock price.

 7) Synergy effects: Since the investor can check buy-related core information such as the buy price list, the quantity list, and various kinds of

profit and loss information in an integrated environment for the respective price regions, he can obtain a more profitable investment environment.

8) Two-dimensional calculation: According to the present invention, two-dimensional buy-related information with respect to all price regions can be calculated once. Also, since the stock price and quantity analysis data are displayed in the table format, the investor can check much integrated data at a first attempt.

9) Application in the case of sell order: When the investor is holding the stocks, the process for setting a portion of estimated stock prices to be a sell price (a sell price list), calculating the sell quantity for each stock price according to the sell price (a quantity list), and automatically performing the sell order, is matched with that of the present buy quantity service, and hence, the identical method can be applied to the case of selling the stocks.

10) (a) The investor saves mental energy spent determining the stock prices, the buy prices, and the quantity analysis. (b) Since the time required for calculating the stock prices, dividing the amount of previously deposited money, analyzing the quantity, and performing the buy order is saved, time expenses are reduced. (c) It is not necessary for the investor to put memo sheets, a pencil, and an electronic calculator before the monitor. (d) Since the investor can previously print out the quantity list and adhere it to the monitor to perform the transactions, the investor can more effectively analyze the stock prices and the quantity. (e) Since the daily trader can immediately check the break-even points on the buy order screen and the present price screen, he can catch more clear sell-reference timing and

maximize his profits.

While this invention has been described in connection with what is presently considered to be the most practical and preferred embodiment, it is to be understood that the invention is not limited to the disclosed
5 embodiments, but, on the contrary, is intended to cover various modifications and equivalent arrangements included within the spirit and scope of the appended claims.

WHAT IS CLAIMED IS:

1. A cyber trading service device for providing cyber trading services according to requests by a plurality of client PCs (personal computers), comprising:

5 a main controller for calculating a buy price list when a buy price calculation request is received from a corresponding client PC, and calculating a quantity list and outputting calculation results data when a calculation request signal on the quantity list is received; and

10 a quantity list calculator for dividing an amount of previously deposited money by percent (%) to calculate the buy price list when the amount of previously deposited money is received through the main controller, and calculating the quantity list that is buy information for respective stock prices from the corresponding issue's standard price and buy price and outputting corresponding calculation results to the
15 corresponding client PC when the user's issue code and buy price are input.

2. The device of claim 1, further comprising a communication controller for transmitting data to the main controller when the data including an account number, an issue code, and a buy price are input from the client PC according to the user's selection, and outputting the buy price list or the
20 quantity list calculated according to control by the main controller to the corresponding client PC through a communication network.

3. The device of claim 1 or 2, further comprising:

 a client information database for storing user IDs, passwords,

account information and personal information, and providing data stored for determining registered user states when the client PC user logs in so as to perform cyber trading;

an account information database for storing the user's previously
5 deposited money information; and

a stock price information database for storing stock price information periodically input by an external stock information provider, including a corresponding issue's standard price, present price, nominal price, sell quantity for each nominal price, buy quantity, transaction quantity,
10 and the highest and lowest limit prices.

4. The device of claim 3, further comprising:

a management program input unit for receiving a management program related to the cyber stock transactions used by a manager at the main controller, and a calculation program for calculating the quantity list;
15 and

a quantity calculation program database for storing a quantity list calculation program input from the management program input unit.

5. The device of claim 4, wherein the quantity calculation program database comprises:

a buy price calculation program for using the account information's previously deposited money amount to calculate the buy price's volume list;
20 and

a quantity calculation program for calculating stock prices to which

the nominal prices of from the highest limit to the lowest limit of the corresponding issue are applied, advance-decline ratios (ADR) and advance-decline depth lists, buyable quantity for each stock price according to the buy price, actual buy price, commission, commission rate, break-even point, and
5 break-even difference.

6. The device of claim 5, wherein the calculation process by the buy price calculation program includes the steps of:

calculating a percent (%) list of from 100 to 1%; and

10 multiplying the respective percent values of the percent list by the previously deposited money amount input from the account information database to calculate a buy price list.

7. The device of claim 5, wherein the calculation process by the quantity calculation program includes the steps of:

15 calculating the highest and lowest limit prices with reference to the corresponding issue's standard price, and applying the nominal prices of from the highest to the lowest limit prices to calculate a stock list;

dividing the respective stock prices of the stock price list by the standard price to calculate the ADRs for each stock price;

20 subtracting the standard price from the respective stock prices of the stock price list to calculate the advance-decline depth for the respective stock prices;

dividing the buy price by the respective stock prices to calculate the buyable quantity for each stock price;

multiplying the stock price by the buy quantity to calculate the

actual buy price for each stock price;

multiplying the actual buy price by the commission rate and adding the default commission to the multiplied results to calculate the commission for each stock price;

5 dividing the commission by the actual buy price to calculate the commission rate for each stock price;

 multiplying the stock price by the break-even point rate to calculate the break-even point for each stock price; and

 subtracting the stock price from the break-even point to calculate
10 the break-even difference.

8. A cyber trading service device for receiving stock information from a securities corporation's server and providing a cyber trading service, comprising:

 a quantity calculation program storage unit for calculating a
15 quantity list using a corresponding issue's standard price and buy price;

 a CPU (central processing unit) for controlling to load a corresponding program in the quantity calculation program storage unit to an inner main memory, execute it, and output calculation results of the quantity list; and

20 a display for displaying the calculation results output by the CPU to a user.

9. The device of claim 8, wherein the quantity calculation program storage unit comprises:

a buy price calculation program for using the amount of previously deposited money of account information to calculate the buy price's volume list;

5 a quantity calculation program for calculating stock prices to which the nominal prices of from the highest limit to the lowest limit of the corresponding issue are applied, advance-decline ratios (ADR) and advance-decline depth lists, buyable quantity for each stock price according to the buy price, actual buy price, commission, commission rate, break-even point, and break-even difference; and

10 a profit and loss analysis program for setting the quantity In a buy quantity input blank to be a buy quantity, the stock price in the buy unit cost input blank to be a buy price, and the stock price in the stock price list to be a sell price, to perform profit and loss analysis.

15 10. The device of claim 9, wherein the profit and loss analysis program includes steps of:

dividing the stock price in the stock price list by the buy price to calculate the earning rate;

subtracting the buy unit cost from the stock price in the stock price list to calculate the profit and loss depth; and

20 multiplying the profit and loss depth by the quantity to calculate the total profit and loss for each stock price.

11. A cyber trading service method for providing a cyber trading service according to requests by a plurality of client PCs, comprising:

transmitting stock price information to a corresponding client PC

when a user selects a predetermined issue on a buy order screen through a cyber trading system in the client PC;

receiving the user's account number from the client PC, inputting a previously deposited money amount to a previously established calculation
5 program to calculate a buy price list, and outputting calculation results to the corresponding client PC; and

receiving the user's issue code and buy price from the client PC, and inputting the corresponding issue's standard price and buy price to the previously established calculation program to calculate a quantity list, and
10 outputting calculation results to the corresponding client PC.

12. The method of claim 11, wherein the quantity list includes information on buyable quantities, actual buy prices, commissions, commission rates, break-even points, and break-even differences for all stock prices in the corresponding day.

15 13. A cyber trading service method for receiving stock information from a securities corporation's server and providing the cyber trading service, comprising:

(a) a CPU displaying stock price information on a buy order screen when a user logs in to a cyber trading system in a client PC;

20 (b) the CPU receiving previously deposited money information from the securities corporation's server when the user selects a buy price calculation on the buy order screen, using a corresponding calculation program to calculate a buy price list, and displaying the buy price list in a buy

price list window;

(c) the CPU using a corresponding calculation program to calculate the buy quantity corresponding to a stock price list and a stock price, and displaying it in a quantity list window when the user selects a predetermined price in the buy price list window;

(d) the CPU setting a selected stock price to be a buy price, the corresponding quantity to be a buy quantity, and automatically and concurrently inputting them in a buy order blank when the user selects a predetermined stock price in the quantity list window; and

(e) the CPU using a corresponding calculation program to calculate the profit and loss analysis for each stock price and displaying the same in the quantity list window when the user selects a predetermined stock price in the quantity list window.

14. The method of claim 13, wherein in (b), the calculation of the buy price includes:

calculating a percent (%) list of from 1 to 100%; and
multiplying the previously deposited money amount by each percent to calculate a buy price list for each percent.

15. The method of claim 14, wherein in (c), the calculation of the quantity list comprises:

calculating the highest and lowest limit prices with reference to the corresponding issue's standard price, and applying the nominal prices of from the highest to the lowest limit prices to calculate a stock list;

dividing the respective stock prices of the stock price list by the

standard price to calculate the ADRs;

subtracting the standard price from the respective stock prices of the stock price list to calculate the advance-decline depth;

5 dividing the buy price by the respective stock prices to calculate the buyable quantity;

multiplying the stock price by the buy quantity to calculate the actual buy price;

multiplying the actual buy price by the commission rate and adding the default commission to the multiplied results to calculate the commission;

10 dividing the commission by the actual buy price to calculate the commission rate;

multiplying the stock price by the break-even point rate to calculate the break-even point; and

15 subtracting the stock price from the break-even point to calculate the break-even difference.

16. The method of claim 15, wherein in (e), the profit and loss analysis process includes the steps of:

dividing the stock price in the stock price list by the buy price to calculate the earning rate;

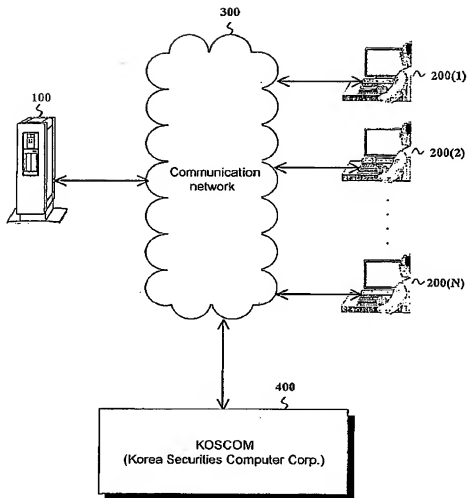
20 subtracting the buy unit cost from the stock price in the stock price list to calculate the profit and loss depth;

multiplying the profit and loss depth by the quantity to calculate the total profit and loss for each stock price; and

calculating the commissions, commission rates, net profits or

losses, net profit or loss rates, total sell prices and total sell rates for the
respective stock prices.

1/30
FIG. 1



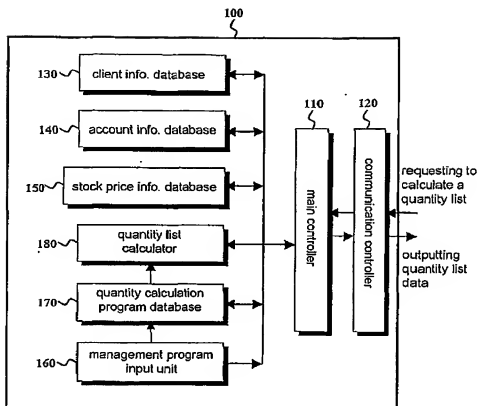
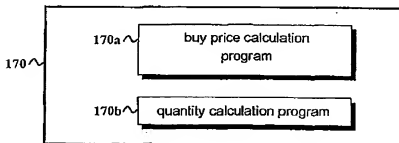
2/30
FIG. 2

FIG. 3



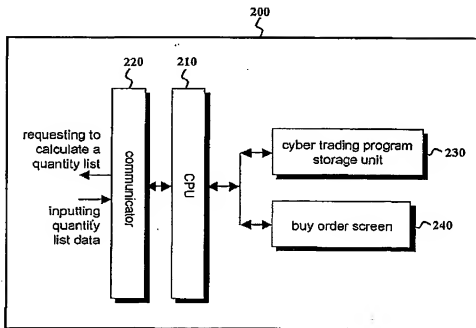
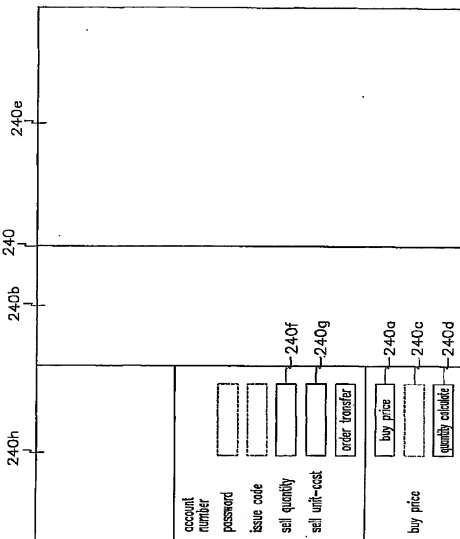
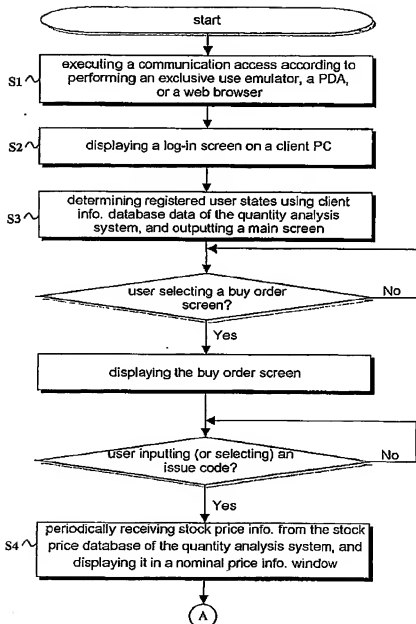
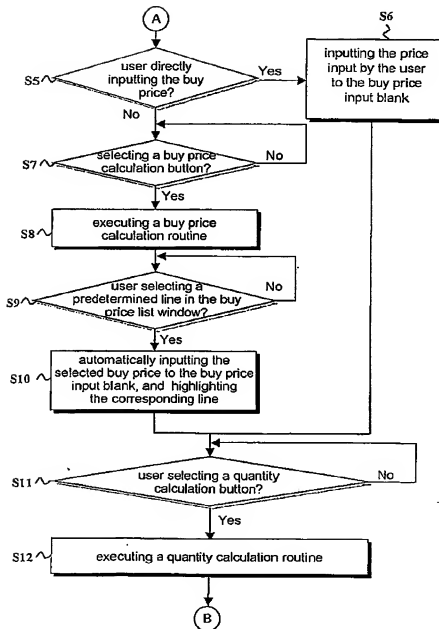
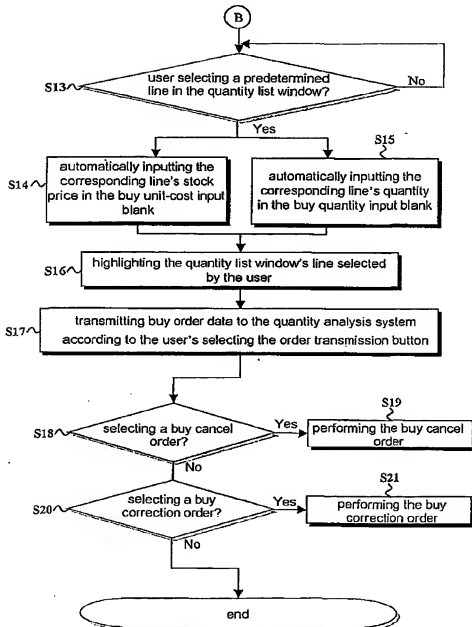
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FIG. 4

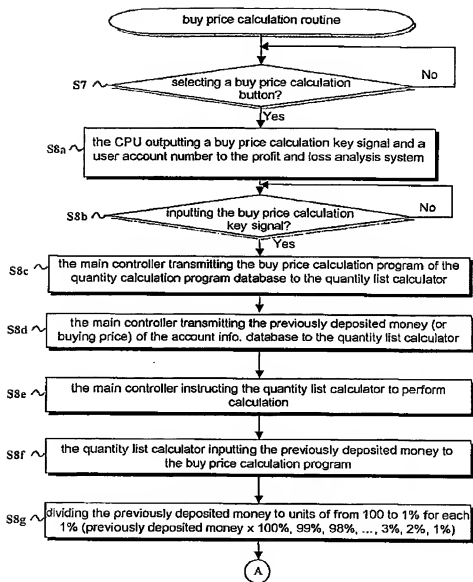
FIG. 5

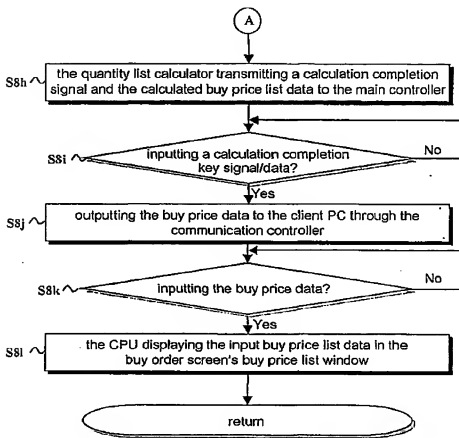


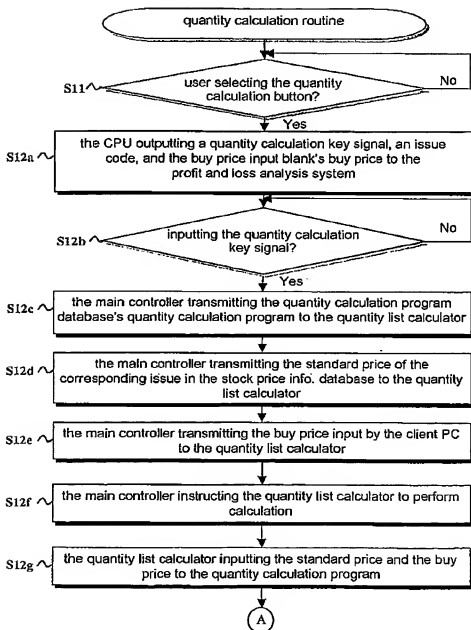
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FIG. 6A

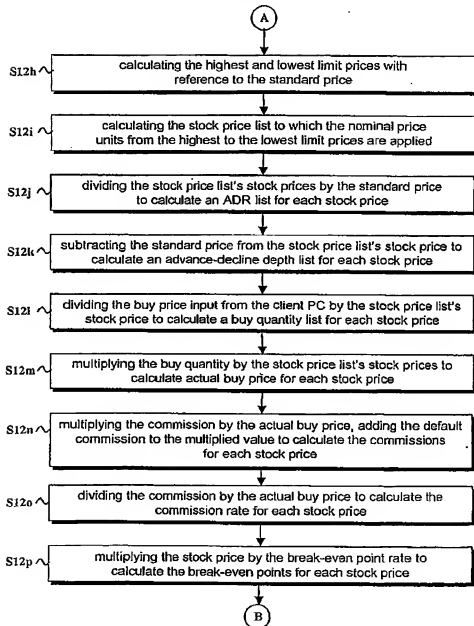
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FIG. 6B

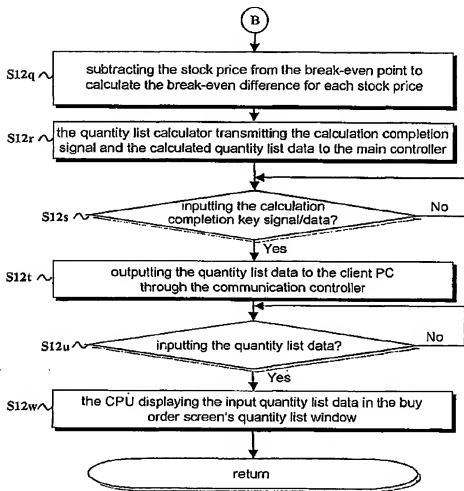
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FIG. 6C

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FIG. 7A

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FIG. 7B

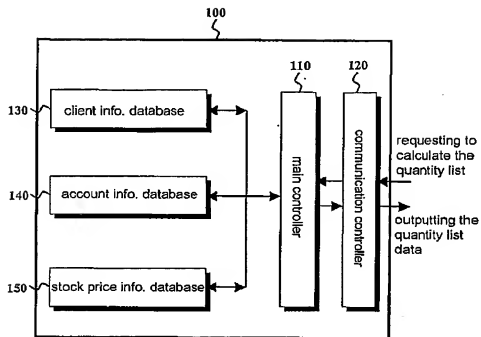
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FIG. 8A

11/30
FIG. 8B

12/30
FIG. 8C

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FIG. 9



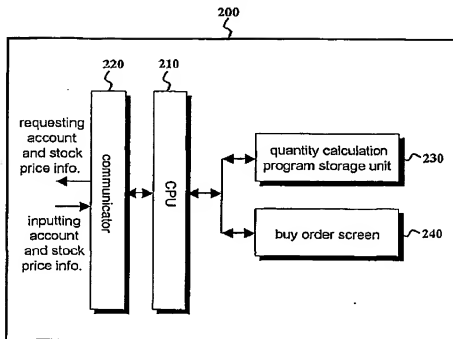
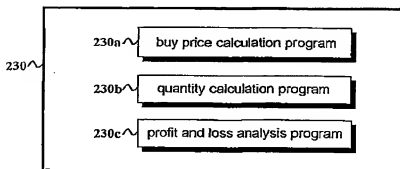
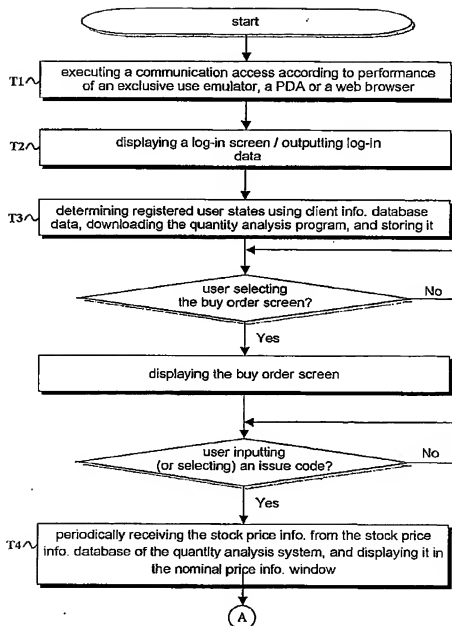
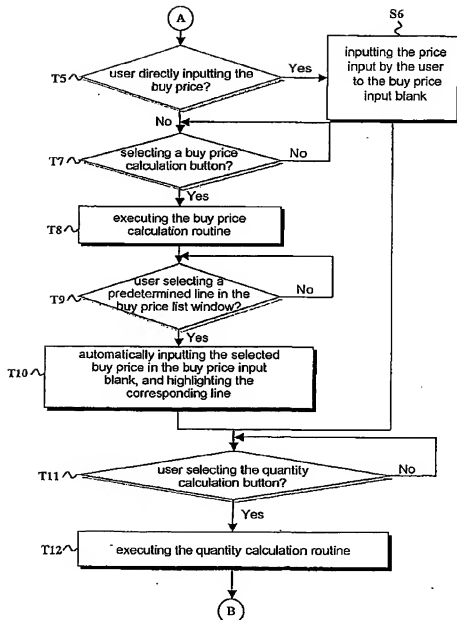
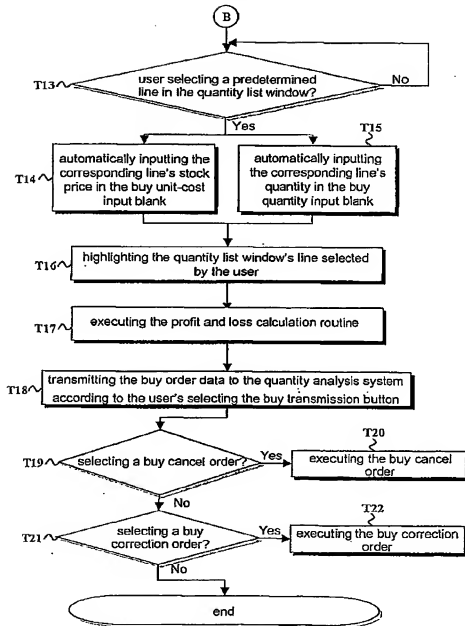
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FIG. 10

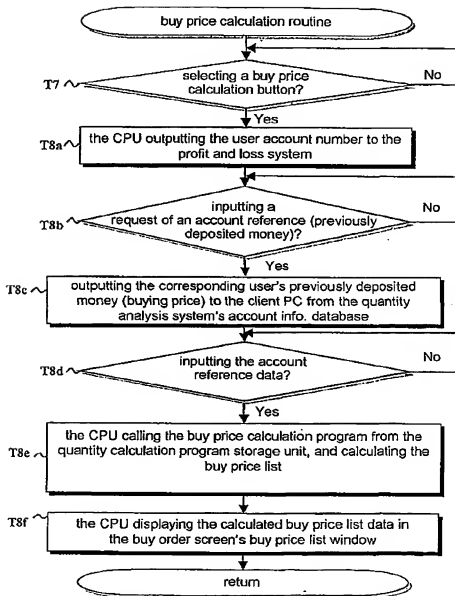
FIG. 11



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FIG.12A

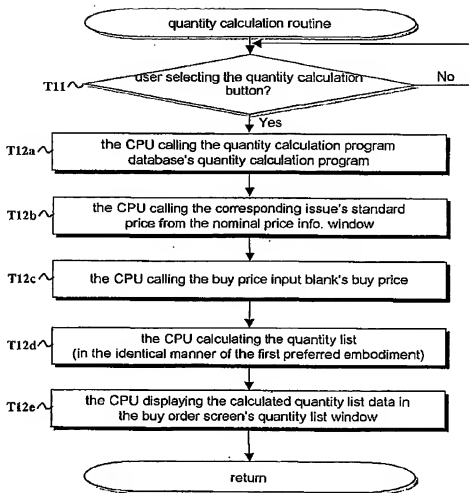
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FIG.12B

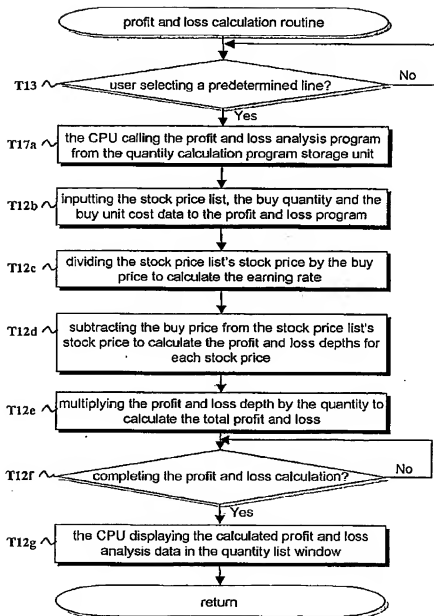
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FIG. 12C

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FIG. 13

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FIG. 14



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FIG. 15

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FIG. 16

previously deposited money 23,500,000 (buying price)

%	buy price per %	%	buy price per %
100%	23,500,000	50%	11,750,000
99%	23,265,000	49%	11,515,000
98%	23,030,000	48%	11,280,000
97%	22,795,000	47%	11,045,000
96%	22,560,000	46%	10,810,000
95%	22,325,000	45%	10,575,000
94%	22,090,000	44%	10,340,000
93%	21,855,000	43%	10,105,000
92%	21,620,000	42%	9,870,000
91%	21,385,000	41%	9,635,000
90%	21,150,000	40%	9,400,000
89%	20,915,000	39%	9,165,000
88%	20,680,000	38%	8,930,000
87%	20,445,000	37%	8,695,000
86%	20,210,000	36%	8,460,000
85%	19,975,000	35%	8,225,000
84%	19,740,000	34%	7,990,000
83%	19,505,000	33%	7,755,000
82%	19,270,000	32%	7,520,000
81%	19,035,000	31%	7,285,000
80%	18,800,000	30%	7,050,000
79%	18,565,000	29%	6,815,000
78%	18,330,000	28%	6,580,000
77%	18,095,000	27%	6,345,000
76%	17,860,000	26%	6,110,000
75%	17,625,000	25%	5,875,000
74%	17,390,000	24%	5,640,000
73%	17,155,000	23%	5,405,000
72%	16,920,000	22%	5,170,000
71%	16,685,000	21%	4,935,000
70%	16,450,000	20%	4,700,000
69%	16,215,000	19%	4,465,000
68%	15,980,000	18%	4,230,000
67%	15,745,000	17%	3,995,000
66%	15,510,000	16%	3,760,000
65%	15,275,000	15%	3,525,000
64%	15,040,000	14%	3,290,000
63%	14,805,000	13%	3,055,000
62%	14,570,000	12%	2,820,000
61%	14,335,000	11%	2,585,000
60%	14,100,000	10%	2,350,000
59%	13,865,000	9%	2,115,000
58%	13,630,000	8%	1,880,000
57%	13,395,000	7%	1,645,000
56%	13,160,000	6%	1,410,000
55%	12,925,000	5%	1,175,000
54%	12,690,000	4%	940,000
53%	12,455,000	3%	705,000
52%	12,220,000	2%	470,000
51%	11,985,000	1%	235,000

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FIG. 17A

standard price				8,500				7,750,000				8,340				total profit and loss			
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buy price				ADR				buy price				buy price				total profit and loss			
buy price				ADR				buy price				buy price							

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FIG.17B

No	stock price	ADR	advance- decline depth	buy quantity	actual price	commission	commission rate	break- even point	break-even difference	winning ratio	profit and loss depth	total profit and loss
37	9,540	10.39%	940	812	7,746,480	15,493	0.20%	9,607	69.78	14.33%	200	974,400
38	9,500	10.81%	930	813	7,747,890	15,496	0.20%	9,597	69.71	14.27%	180	957,470
39	9,520	10.78%	920	814	7,749,280	15,498	0.20%	9,587	69.64	14.15%	180	960,520
40	9,510	10.59%	910	815	7,750,650	15,501	0.20%	9,577	69.57	14.03%	170	933,550
41	9,500	10.58%	900	816	7,752,000	15,503	0.20%	9,567	69.50	13.91%	160	948,580
42	9,490	10.35%	890	817	7,753,350	15,506	0.20%	9,557	69.43	13.79%	150	938,590
43	9,480	10.23%	880	818	7,754,640	15,509	0.20%	9,546	69.36	13.67%	140	918,610
44	9,470	10.13%	870	819	7,755,930	15,512	0.20%	9,536	69.29	13.55%	130	912,620
45	9,460	10.03%	860	820	7,757,240	15,495	0.20%	9,526	69.22	13.43%	120	917,630
46	9,450	9.88%	850	821	7,758,500	15,498	0.20%	9,516	69.15	13.31%	110	910,200
47	9,440	9.77%	840	822	7,759,760	15,500	0.20%	9,506	69.08	13.19%	100	903,100
48	9,430	9.65%	830	823	7,761,000	15,503	0.20%	9,496	69.01	13.07%	90	895,690
49	9,420	9.53%	820	824	7,762,260	15,505	0.20%	9,486	68.94	12.95%	80	888,540
50	9,410	9.42%	810	825	7,763,500	15,509	0.20%	9,476	68.87	12.83%	70	881,480
51	9,400	9.30%	800	826	7,764,750	15,494	0.20%	9,466	68.80	12.71%	60	874,500
52	9,390	9.17%	790	827	7,765,990	15,498	0.20%	9,456	68.73	12.59%	50	867,540
53	9,380	9.05%	780	828	7,767,200	15,495	0.20%	9,446	68.66	12.47%	40	860,580
54	9,370	8.93%	770	829	7,768,400	15,498	0.20%	9,436	68.59	12.35%	30	853,620
55	9,360	8.81%	760	830	7,769,590	15,500	0.20%	9,426	68.52	12.23%	20	846,660
56	9,350	8.69%	750	831	7,770,780	15,502	0.20%	9,416	68.45	12.11%	10	839,700
57	9,340	8.60%	740	832	7,771,950	15,504	0.20%	9,406	68.38	11.99%	0	832,740
58	9,330	8.49%	730	833	7,773,120	15,508	0.20%	9,396	68.31	11.87%	900	825,780
59	9,320	8.37%	720	834	7,774,290	15,509	0.20%	9,386	68.24	11.75%	880	818,820
60	9,310	8.26%	710	835	7,775,460	15,492	0.20%	9,376	68.17	11.63%	870	811,860
61	9,300	8.14%	700	836	7,776,630	15,494	0.20%	9,366	68.10	11.51%	860	804,900
62	9,290	8.02%	690	837	7,777,800	15,498	0.20%	9,356	68.03	11.39%	850	797,940
63	9,280	7.91%	680	838	7,778,970	15,495	0.20%	9,346	67.96	11.27%	840	790,980
64	9,270	7.80%	670	839	7,780,140	15,498	0.20%	9,336	67.89	11.15%	830	784,020
65	9,260	7.68%	660	840	7,781,310	15,495	0.20%	9,326	67.82	11.03%	820	777,060
66	9,250	7.57%	650	841	7,782,480	15,500	0.20%	9,316	67.75	10.91%	810	770,100
67	9,240	7.44%	640	842	7,783,650	15,505	0.20%	9,306	67.68	10.79%	800	763,140
68	9,230	7.33%	630	843	7,784,820	15,508	0.20%	9,296	67.61	10.67%	790	756,180
69	9,220	7.21%	620	844	7,785,990	15,508	0.20%	9,286	67.54	10.55%	780	749,220
70	9,210	7.09%	610	845	7,787,160	15,510	0.20%	9,276	67.47	10.43%	770	742,260
71	9,200	6.98%	600	846	7,788,330	15,493	0.20%	9,266	67.40	10.31%	760	735,300
72	9,190	6.86%	590	847	7,789,500	15,494	0.20%	9,256	67.33	10.19%	750	728,340
73	9,180	6.74%	580	848	7,790,670	15,498	0.20%	9,246	67.26	10.07%	740	721,380
74	9,170	6.63%	570	849	7,791,840	15,497	0.20%	9,236	67.19	9.95%	730	714,420
75	9,160	6.51%	560	850	7,793,010	15,499	0.20%	9,226	67.12	9.83%	720	707,460
76	9,150	6.40%	550	851	7,794,180	15,500	0.20%	9,216	67.05	9.71%	710	700,500

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FIG.17C

No	stock price	ADR	advance- decline depth	buy quantity	actual buy price	commission rate	break- even point	break-even difference	earning rate	profit and loss	total profit and loss
76	8,140	6.26%	540	848	7,750.720	15.501	0.20%	83.93	8.53%	500	578.400
77	8,130	6.18%	530	849	7,751.370	15.503	0.20%	83.91	8.53%	500	578.400
78	8,120	6.05%	520	850	7,752.000	15.504	0.20%	83.84	8.53%	770	655.270
79	8,110	5.95%	510	851	7,752.610	15.505	0.20%	83.74	8.53%	770	655.270
80	8,100	5.81%	500	852	7,753.200	15.506	0.20%	83.63	8.53%	750	639.750
81	8,090	5.69%	490	853	7,753.770	15.508	0.20%	83.58	8.53%	740	631.960
82	8,080	5.57%	480	854	7,754.320	15.509	0.20%	83.46	8.53%	730	624.150
83	8,070	5.47%	470	855	7,754.850	15.510	0.20%	83.35	8.53%	720	616.500
84	8,060	5.35%	460	856	7,755.360	15.493	0.20%	83.23	8.53%	710	607.760
85	8,050	5.25%	450	857	7,755.840	15.494	0.20%	83.14	8.53%	700	599.900
86	8,040	5.12%	440	858	7,756.300	15.495	0.20%	83.03	8.53%	680	592.020
87	8,030	5.00%	430	859	7,756.740	15.498	0.20%	82.93	8.53%	670	584.120
88	8,020	4.87%	420	860	7,757.160	15.499	0.20%	82.83	8.53%	660	576.200
89	8,010	4.75%	410	861	7,757.560	15.499	0.20%	82.74	8.53%	650	568.260
90	8,000	4.65%	400	862	7,757.940	15.499	0.20%	82.65	8.53%	640	560.300
91	7,990	4.55%	390	863	7,758.300	15.500	0.20%	82.56	8.53%	630	552.330
92	7,980	4.45%	380	864	7,758.640	15.501	0.20%	82.47	8.53%	620	544.360
93	7,970	4.30%	370	865	7,758.960	15.501	0.20%	82.38	8.53%	610	536.380
94	7,960	4.19%	360	866	7,759.260	15.501	0.20%	82.29	8.53%	600	528.390
95	7,950	4.07%	350	867	7,759.540	15.502	0.20%	82.20	8.53%	590	520.390
96	7,940	3.95%	340	868	7,759.800	15.502	0.20%	82.11	8.53%	580	512.380
97	7,930	3.84%	330	869	7,760.040	15.503	0.20%	82.02	8.53%	570	504.360
98	7,920	3.75%	320	870	7,760.260	15.504	0.20%	81.92	8.53%	560	496.330
99	7,910	3.65%	310	871	7,760.460	15.504	0.20%	81.82	8.53%	550	488.290
100	7,900	3.56%	300	872	7,760.640	15.505	0.20%	81.72	8.53%	540	480.240
101	7,890	3.47%	290	873	7,760.800	15.505	0.20%	81.62	8.53%	530	472.180
102	7,880	3.38%	280	874	7,760.940	15.505	0.20%	81.52	8.53%	520	464.110
103	7,870	3.31%	270	875	7,761.060	15.505	0.20%	81.42	8.53%	510	456.030
104	7,860	3.24%	260	876	7,761.160	15.505	0.20%	81.32	8.53%	500	447.940
105	7,850	3.17%	250	877	7,761.240	15.505	0.20%	81.22	8.53%	490	439.840
106	7,840	3.11%	240	878	7,761.300	15.505	0.20%	81.12	8.53%	480	431.730
107	7,830	3.05%	230	879	7,761.340	15.505	0.20%	81.02	8.53%	470	423.610
108	7,820	2.99%	220	880	7,761.360	15.505	0.20%	80.92	8.53%	460	415.480
109	7,810	2.94%	210	881	7,761.360	15.505	0.20%	80.82	8.53%	450	407.340
110	7,800	2.89%	200	882	7,761.340	15.505	0.20%	80.72	8.53%	440	399.190
111	7,790	2.81%	190	883	7,761.290	15.505	0.20%	80.62	8.53%	430	391.030
112	7,780	2.74%	180	884	7,761.210	15.505	0.20%	80.52	8.53%	420	382.860
113	7,770	2.68%	170	885	7,761.100	15.505	0.20%	80.42	8.53%	410	374.680
114	7,760	2.63%	160	886	7,760.960	15.505	0.20%	80.32	8.53%	400	366.490
115	7,750	2.58%	150	887	7,760.790	15.505	0.20%	80.22	8.53%	390	358.290

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FIG. 17D

No	stock price	ADR	advance- decline depth	buy quantity	actual buy price	commission	commission rate	break- even point	break-even difference	earnings rate	profit and loss depth	total profit and loss
116	8,740	1.63%	140	887	7,752,380	15,505	0.20%	8,801	-8,118	4.80%	400	354,800
117	8,730	1.51%	130	888	7,752,240	15,504	0.20%	8,791	6,111	4.68%	390	346,320
118	8,720	1.40%	120	888	7,752,080	15,504	0.20%	8,781	6,104	4.56%	380	337,840
119	8,710	1.28%	110	890	7,751,900	15,504	0.20%	8,771	6,097	4.44%	370	329,360
120	8,700	1.16%	100	891	7,751,700	15,503	0.20%	8,761	6,090	4.32%	360	320,880
121	8,690	1.05%	90	892	7,751,480	15,503	0.20%	8,751	6,083	4.20%	350	312,400
122	8,680	0.93%	80	893	7,751,240	15,502	0.20%	8,741	6,076	4.08%	340	303,920
123	8,670	0.81%	70	894	7,750,980	15,502	0.20%	8,731	6,069	3.96%	330	295,440
124	8,660	0.70%	60	895	7,750,700	15,501	0.20%	8,721	6,062	3.84%	320	286,960
125	8,650	0.58%	50	896	7,750,400	15,500	0.20%	8,711	6,055	3.72%	310	278,480
126	8,640	0.47%	40	897	7,750,080	15,499	0.20%	8,700	6,048	3.60%	300	269,000
127	8,630	0.35%	30	898	7,749,740	15,499	0.20%	8,690	6,041	3.48%	290	260,520
128	8,620	0.23%	20	899	7,749,380	15,498	0.20%	8,680	6,034	3.36%	280	252,040
129	8,610	0.12%	10	900	7,749,000	15,497	0.20%	8,670	6,027	3.24%	270	243,560
130	8,600	0.01%	0	901	7,748,600	15,497	0.20%	8,660	6,020	3.12%	260	235,080
131	8,590	-0.10%	-10	902	7,748,160	15,496	0.20%	8,650	6,013	3.00%	250	226,600
132	8,580	-0.23%	-20	903	7,747,740	15,495	0.20%	8,640	6,006	2.88%	240	218,120
133	8,570	-0.35%	-30	904	7,747,280	15,495	0.20%	8,630	5,999	2.76%	230	209,640
134	8,560	-0.47%	-40	905	7,746,800	15,494	0.20%	8,620	5,992	2.64%	220	201,160
135	8,550	-0.58%	-50	906	7,746,320	15,494	0.20%	8,610	5,985	2.52%	210	192,680
136	8,540	-0.70%	-60	907	7,745,800	15,493	0.20%	8,600	5,978	2.40%	200	184,200
137	8,530	-0.81%	-70	908	7,745,280	15,492	0.20%	8,590	5,971	2.28%	190	175,720
138	8,520	-0.93%	-80	910	7,753,200	15,506	0.20%	8,570	5,964	2.16%	180	167,240
139	8,510	-1.05%	-90	911	7,752,610	15,505	0.20%	8,560	5,957	2.04%	170	158,760
140	8,500	-1.16%	-100	912	7,752,000	15,504	0.20%	8,550	5,950	1.92%	160	150,280
141	8,490	-1.28%	-110	913	7,751,370	15,503	0.20%	8,540	5,943	1.80%	150	141,800
142	8,480	-1.40%	-120	914	7,750,720	15,501	0.20%	8,530	5,936	1.68%	140	133,320
143	8,470	-1.51%	-130	915	7,750,050	15,500	0.20%	8,519	5,929	1.56%	130	124,840
144	8,460	-1.63%	-140	916	7,749,360	15,499	0.20%	8,509	5,922	1.44%	120	116,360
145	8,450	-1.74%	-150	917	7,748,650	15,497	0.20%	8,500	5,915	1.32%	110	107,880
146	8,440	-1.86%	-160	918	7,747,920	15,495	0.20%	8,490	5,908	1.20%	100	99,400
147	8,430	-1.98%	-170	919	7,747,170	15,494	0.20%	8,480	5,901	1.08%	90	90,920
148	8,420	-2.09%	-180	921	7,754,820	15,510	0.20%	8,470	5,894	0.96%	80	82,440
149	8,410	-2.21%	-190	922	7,753,200	15,508	0.20%	8,460	5,887	0.84%	70	73,960
150	8,400	-2.33%	-200	924	7,752,600	15,505	0.20%	8,449	5,880	0.72%	60	65,480
151	8,390	-2.44%	-210	925	7,751,970	15,503	0.20%	8,439	5,873	0.60%	50	57,000
152	8,380	-2.56%	-220	926	7,751,280	15,501	0.20%	8,429	5,866	0.48%	40	48,520
153	8,370	-2.67%	-230	927	7,750,620	15,499	0.20%	8,420	5,859	0.36%	30	40,040
154	8,360	-2.79%	-240	928	7,749,900	15,498	0.20%	8,410	5,852	0.24%	20	31,560
155	8,350	-2.91%	-250	929	7,749,120	15,496	0.20%	8,400	5,845	0.12%	10	23,080

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FIG.17E

No	stock price	ADR	entrance betting depth	buy quantity	actual buy price	commission	commission rate	break- even point	break-even difference	betting rate	profit and loss depth	total profit and loss
150	8.340	-3.03%	-280	929	7,747,990	15,495	0.20%	8,939	59.93	0.00%	0	0
151	8.350	-3.14%	-270	930	7,747,990	15,494	0.20%	8,938	59.91	-0.12%	-10	-5,300
152	8.360	-3.26%	-260	932	7,754,260	15,508	0.20%	8,978	58.84	-0.24%	-20	-10,600
153	8.370	-3.38%	-250	933	7,754,260	15,508	0.20%	8,989	59.17	-0.35%	-30	-15,900
154	8.380	-3.49%	-240	935	7,752,200	15,503	0.20%	8,988	59.17	-0.46%	-40	-21,200
155	8.390	-3.60%	-230	935	7,751,150	15,502	0.20%	8,948	59.03	-0.58%	-50	-26,500
156	8.400	-3.72%	-220	936	7,750,980	15,500	0.20%	8,938	57.95	-0.70%	-60	-31,800
157	8.410	-3.84%	-210	937	7,748,980	15,498	0.20%	8,938	57.89	-0.81%	-70	-37,100
158	8.420	-3.95%	-200	938	7,747,880	15,498	0.20%	8,918	57.82	-0.93%	-80	-42,400
159	8.430	-4.07%	-190	940	7,755,000	15,510	0.20%	8,938	57.75	-1.05%	-90	-47,700
160	8.440	-4.19%	-180	941	7,753,840	15,508	0.20%	8,938	57.68	-1.20%	-100	-53,000
161	8.450	-4.31%	-170	942	7,752,680	15,505	0.20%	8,938	57.61	-1.32%	-110	-58,300
162	8.460	-4.42%	-160	943	7,751,480	15,503	0.20%	8,978	57.54	-1.44%	-120	-63,600
163	8.470	-4.54%	-150	945	7,750,240	15,500	0.20%	8,957	57.47	-1.56%	-130	-68,900
164	8.480	-4.65%	-140	945	7,749,040	15,498	0.20%	8,947	57.40	-1.68%	-140	-74,200
165	8.490	-4.77%	-130	946	7,747,740	15,495	0.20%	8,937	57.33	-1.80%	-150	-79,500
166	8.500	-4.88%	-120	946	7,746,640	15,500	0.20%	8,937	57.26	-1.92%	-160	-84,800
167	8.510	-5.00%	-110	949	7,743,330	15,507	0.20%	8,927	57.19	-2.04%	-170	-90,100
168	8.520	-5.12%	-100	950	7,742,000	15,504	0.20%	8,917	57.12	-2.16%	-180	-95,400
169	8.530	-5.23%	-90	951	7,740,650	15,501	0.20%	8,907	57.05	-2.28%	-190	-100,700
170	8.540	-5.35%	-80	952	7,739,280	15,498	0.20%	8,937	56.99	-2.40%	-200	-106,000
171	8.550	-5.47%	-70	953	7,747,890	15,498	0.20%	8,917	56.91	-2.52%	-210	-111,300
172	8.560	-5.58%	-60	955	7,754,000	15,509	0.20%	8,917	56.77	-2.64%	-220	-116,600
173	8.570	-5.70%	-50	955	7,753,100	15,508	0.20%	8,917	56.70	-2.76%	-230	-121,900
174	8.580	-5.81%	-40	957	7,751,700	15,503	0.20%	8,917	56.63	-2.88%	-240	-127,200
175	8.590	-5.93%	-30	958	7,750,220	15,500	0.20%	8,927	56.55	-3.00%	-250	-132,500
176	8.600	-6.05%	-20	959	7,748,720	15,497	0.20%	8,937	56.48	-3.12%	-260	-137,800
177	8.610	-6.16%	-10	960	7,747,200	15,494	0.20%	8,928	56.41	-3.24%	-270	-143,100
178	8.620	-6.28%	0	962	7,753,720	15,507	0.20%	8,918	56.34	-3.36%	-280	-148,400
179	8.630	-6.40%	10	963	7,752,150	15,504	0.20%	8,908	56.35	-3.48%	-290	-153,700
180	8.640	-6.51%	20	964	7,750,550	15,501	0.20%	8,909	56.28	-3.60%	-300	-159,000
181	8.650	-6.63%	30	965	7,748,950	15,498	0.20%	8,909	56.21	-3.72%	-310	-164,300
182	8.660	-6.74%	40	966	7,747,320	15,495	0.20%	8,909	56.14	-3.84%	-320	-169,600
183	8.670	-6.86%	50	968	7,753,690	15,507	0.20%	8,909	56.07	-3.96%	-330	-174,900
184	8.680	-6.97%	60	968	7,752,700	15,506	0.20%	8,909	56.00	-4.08%	-340	-180,200
185	8.690	-7.09%	70	971	7,750,300	15,504	0.20%	8,909	55.93	-4.20%	-350	-185,500
186	8.700	-7.21%	80	971	7,748,580	15,497	0.20%	8,909	55.86	-4.32%	-360	-190,800
187	8.710	-7.33%	90	972	7,753,040	15,494	0.20%	8,909	55.79	-4.44%	-370	-196,100
188	8.720	-7.44%	100	974	7,753,040	15,505	0.20%	8,916	55.72	-4.56%	-380	-201,400
189	8.730	-7.56%	110	975	7,751,250	15,503	0.20%	8,906	55.65	-4.68%	-390	-206,700

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FIG.17F

No	stock price	AOR	adverse- decline depth	buy quantity	actual buy price	commission	commission rate	break- even point	break-even difference	earnings rate	profit and loss depth	this profit and loss
167	7,940	-7.67%	-680	976	7,749,440	15,489	0.20%	7,982	32.58	-1.85%	-400	-890,240
168	7,930	-7.75%	-670	977	7,747,410	15,490	0.20%	7,982	32.58	-1.85%	-410	-890,370
169	7,920	-7.83%	-660	978	7,745,380	15,507	0.20%	7,975	32.41	-1.86%	-420	-890,500
170	7,910	-7.91%	-650	980	7,743,350	15,504	0.20%	7,965	32.37	-1.86%	-430	-890,630
171	7,900	-8.00%	-640	981	7,741,320	15,500	0.20%	7,955	32.30	-1.86%	-440	-890,760
172	7,890	-8.08%	-630	982	7,739,290	15,496	0.20%	7,945	32.23	-1.86%	-450	-890,890
173	7,880	-8.17%	-620	984	7,737,260	15,508	0.20%	7,935	32.16	-1.86%	-460	-891,020
174	7,870	-8.25%	-610	985	7,735,230	15,504	0.20%	7,925	32.09	-1.86%	-470	-891,150
175	7,860	-8.34%	-600	986	7,733,200	15,498	0.20%	7,915	32.02	-1.86%	-480	-891,280
176	7,850	-8.42%	-590	987	7,731,170	15,498	0.20%	7,905	31.95	-1.86%	-490	-891,410
177	7,840	-8.50%	-580	988	7,729,140	15,500	0.20%	7,895	31.88	-1.86%	-500	-891,540
178	7,830	-8.58%	-570	989	7,727,110	15,503	0.20%	7,885	31.81	-1.86%	-510	-891,670
179	7,820	-8.66%	-560	990	7,725,080	15,500	0.20%	7,875	31.74	-1.86%	-520	-891,800
180	7,810	-8.75%	-550	991	7,723,050	15,496	0.20%	7,865	31.67	-1.86%	-530	-891,930
181	7,800	-8.83%	-540	992	7,721,020	15,495	0.20%	7,855	31.60	-1.86%	-540	-892,060
182	7,790	-8.91%	-530	993	7,718,990	15,495	0.20%	7,845	31.53	-1.86%	-550	-892,190
183	7,780	-9.00%	-520	994	7,716,960	15,502	0.20%	7,835	31.46	-1.86%	-560	-892,320
184	7,770	-9.08%	-510	995	7,714,930	15,500	0.20%	7,825	31.39	-1.86%	-570	-892,450
185	7,760	-9.16%	-500	996	7,712,900	15,498	0.20%	7,815	31.32	-1.86%	-580	-892,580
186	7,750	-9.25%	-490	997	7,710,870	15,509	0.20%	7,805	31.25	-1.86%	-590	-892,710
187	7,740	-9.33%	-480	998	7,708,840	15,504	0.20%	7,795	31.18	-1.86%	-600	-892,840
188	7,730	-9.41%	-470	999	7,706,810	15,500	0.20%	7,785	31.11	-1.86%	-610	-892,970
189	7,720	-9.50%	-460	1,000	7,704,780	15,500	0.20%	7,775	31.04	-1.86%	-620	-893,100
190	7,710	-9.58%	-450	1,001	7,702,750	15,495	0.20%	7,765	30.97	-1.86%	-630	-893,230
191	7,700	-9.66%	-440	1,002	7,700,720	15,497	0.20%	7,755	30.90	-1.86%	-640	-893,360
192	7,690	-9.75%	-430	1,003	7,698,690	15,500	0.20%	7,745	30.83	-1.86%	-650	-893,490
193	7,680	-9.83%	-420	1,004	7,696,660	15,503	0.20%	7,735	30.76	-1.86%	-660	-893,620
194	7,670	-9.91%	-410	1,005	7,694,630	15,500	0.20%	7,725	30.69	-1.86%	-670	-893,750
195	7,660	-10.00%	-400	1,006	7,692,600	15,500	0.20%	7,715	30.62	-1.86%	-680	-893,880
196	7,650	-10.08%	-390	1,007	7,690,570	15,498	0.20%	7,705	30.55	-1.86%	-690	-894,010
197	7,640	-10.16%	-380	1,008	7,688,540	15,500	0.20%	7,695	30.48	-1.86%	-700	-894,140
198	7,630	-10.25%	-370	1,009	7,686,510	15,498	0.20%	7,685	30.41	-1.86%	-710	-894,270
199	7,620	-10.33%	-360	1,010	7,684,480	15,500	0.20%	7,675	30.34	-1.86%	-720	-894,400
200	7,610	-10.41%	-350	1,011	7,682,450	15,500	0.20%	7,665	30.27	-1.86%	-730	-894,530
201	7,600	-10.50%	-340	1,012	7,680,420	15,498	0.20%	7,655	30.20	-1.86%	-740	-894,660
202	7,590	-10.58%	-330	1,013	7,678,390	15,499	0.20%	7,645	30.13	-1.86%	-750	-894,790
203	7,580	-10.66%	-320	1,014	7,676,360	15,500	0.20%	7,635	30.06	-1.86%	-760	-894,920
204	7,570	-10.75%	-310	1,015	7,674,330	15,500	0.20%	7,625	29.99	-1.86%	-770	-895,050
205	7,560	-10.83%	-300	1,016	7,672,300	15,500	0.20%	7,615	29.92	-1.86%	-780	-895,180
206	7,550	-10.91%	-290	1,017	7,670,270	15,498	0.20%	7,605	29.85	-1.86%	-790	-895,310
207	7,540	-11.00%	-280	1,018	7,668,240	15,500	0.20%	7,595	29.78	-1.86%	-800	-895,440
208	7,530	-11.08%	-270	1,019	7,666,210	15,500	0.20%	7,585	29.71	-1.86%	-810	-895,570
209	7,520	-11.16%	-260	1,020	7,664,180	15,500	0.20%	7,575	29.64	-1.86%	-820	-895,700
210	7,510	-11.25%	-250	1,021	7,662,150	15,499	0.20%	7,565	29.57	-1.86%	-830	-895,830
211	7,500	-11.33%	-240	1,022	7,660,120	15,500	0.20%	7,555	29.50	-1.86%	-840	-895,960
212	7,490	-11.41%	-230	1,023	7,658,090	15,500	0.20%	7,545	29.43	-1.86%	-850	-896,090
213	7,480	-11.50%	-220	1,024	7,656,060	15,500	0.20%	7,535	29.36	-1.86%	-860	-896,220
214	7,470	-11.58%	-210	1,025	7,654,030	15,498	0.20%	7,525	29.29	-1.86%	-870	-896,350
215	7,460	-11.66%	-200	1,026	7,652,000	15,500	0.20%	7,515	29.22	-1.86%	-880	-896,480
216	7,450	-11.75%	-190	1,027	7,650,000	15,500	0.20%	7,505	29.15	-1.86%	-890	-896,610
217	7,440	-11.83%	-180	1,028	7,648,000	15,500	0.20%	7,495	29.08	-1.86%	-900	-896,740
218	7,430	-11.91%	-170	1,029	7,646,000	15,500	0.20%	7,485	29.01	-1.86%	-910	-896,870
219	7,420	-12.00%	-160	1,030	7,644,000	15,500	0.20%	7,475	28.94	-1.86%	-920	-897,000
220	7,410	-12.08%	-150	1,031	7,642,000	15,500	0.20%	7,465	28.87	-1.86%	-930	-897,130
221	7,400	-12.16%	-140	1,032	7,640,000	15,500	0.20%	7,455	28.80	-1.86%	-940	-897,260
222	7,390	-12.25%	-130	1,033	7,638,000	15,500	0.20%	7,445	28.73	-1.86%	-950	-897,390
223	7,380	-12.33%	-120	1,034	7,636,000	15,500	0.20%	7,435	28.66	-1.86%	-960	-897,520
224	7,370	-12.41%	-110	1,035	7,634,000	15,500	0.20%	7,425	28.59	-1.86%	-970	-897,650
225	7,360	-12.50%	-100	1,036	7,632,000	15,500	0.20%	7,415	28.52	-1.86%	-980	-897,780
226	7,350	-12.58%	-90	1,037	7,630,000	15,500	0.20%	7,405	28.45	-1.86%	-990	-897,910
227	7,340	-12.66%	-80	1,038	7,628,000	15,500	0.20%	7,395	28.38	-1.86%	-1,000	-898,040
228	7,330	-12.75%	-70	1,039	7,626,000	15,500	0.20%	7,385	28.31	-1.86%	-1,010	-898,170
229	7,320	-12.83%	-60	1,040	7,624,000	15,500	0.20%	7,375	28.24	-1.86%	-1,020	-898,300
230	7,310	-12.91%	-50	1,041	7,622,000	15,500	0.20%	7,365	28.17	-1.86%	-1,030	-898,430
231	7,300	-13.00%	-40	1,042	7,620,000	15,500	0.20%	7,355	28.10	-1.86%	-1,040	-898,560
232	7,290	-13.08%	-30	1,043	7,618,000	15,500	0.20%	7,345	28.03	-1.86%	-1,050	-898,690
233	7,280	-13.16%	-20	1,044	7,616,000	15,500	0.20%	7,335	27.96	-1.86%	-1,060	-898,820
234	7,270	-13.25%	-10	1,045	7,614,000	15,500	0.20%	7,325	27.89	-1.86%	-1,070	-898,950
235	7,260	-13.33%	0	1,046	7,612,000	15,500	0.20%	7,315	27.82	-1.86%	-1,080	-899,080
236	7,250	-13.41%	10	1,047	7,610,000	15,500	0.20%	7,305	27.75	-1.86%	-1,090	-899,210
237	7,240	-13.50%	20	1,048	7,608,000	15,500	0.20%	7,295	27.68	-1.86%	-1,100	-899,340
238	7,230	-13.58%	30	1,049	7,606,000	15,500	0.20%	7,285	27.61	-1.86%	-1,110	-899,470
239	7,220	-13.66%	40	1,050	7,604,000	15,500	0.20%	7,275	27.54	-1.86%	-1,120	-899,600
240	7,210	-13.75%	50	1,051	7,602,000	15,500	0.20%	7,265	27.47	-1.86%	-1,130	-899,730
241	7,200	-13.83%	60	1,052	7,600,000	15,500	0.20%	7,255	27.40	-1.86%	-1,140	-899,860
242	7,190	-13.91%	70	1,053	7,598,000	15,500	0.20%	7,245	27.33	-1.86%	-1,150	-899,990
243	7,180	-14.00%	80	1,054	7,596,000	15,500	0.20%	7,235	27.26	-1.86%	-1,160	-900,120
244	7,170	-14.08%	90	1,055	7,594,000	15,500	0.20%	7,225	27.19	-1.86%	-1,170	-900,250
245	7,160	-14.16%	100	1,056	7,592,000	15,500	0.20%	7,215	27.12	-1.86%	-1,180	-900,380
246	7,150	-14.25%	110	1,057	7,590,000	15,500	0.20%	7,205	27.05	-1.86%	-1,190	-900,510
247	7,140	-14.33%	120	1,058	7,588,000	15,500	0.20%	7,195	26.98	-1.86%	-1,200	-900,640
248	7,130	-14.41%	130	1,059	7,586,000	15,500	0.20%	7,185	26.91	-1.86%	-1,210	-900,770
249	7,120	-14.50%	140	1,060	7,584,000	15,500	0.20%	7,175	26.84	-1.86%	-1,220	-900,900
250	7,110	-14.58%	150	1,061	7,582,000	15,500	0.20%	7,165	26.77	-1.86%	-1,230	-901,030
251	7,100	-14.66%	160	1,062	7,580,000	15,500	0.20%	7,155	26.70	-1.86%	-1,240	-901,160
252	7,090	-14.75%	170	1,063	7,578,000	15,500	0.20%	7,145	26.63	-1.86%	-1,250	-901,290
253	7,080	-14.83%	180	1,064	7,576,000	15,500	0.20%	7,135	26.56	-1.86%	-1,260	-901,420
254	7,070	-14.91%	190	1,065	7,574,000	15,500	0.20%	7,125	26.49	-1.86%	-1,270	-901,550
255	7,060	-15.00%	200	1,066	7,572,000	15,500	0.20%	7,115	26.42	-1.86%	-1,280	-901,680
256	7,050	-15.08%	210	1,067	7,570,000	15,500	0.20%	7,105	26.35	-1.86%	-1,290	-901,810
257	7,040	-15.16%	220	1,								

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FIG.17G

No.	stock price	AOR	advance- decline depth	buy quantity	actual buy price	commission	commission rate	break- even point	break-even difference	earning rate	profit and loss depth	total profit and loss
236	7,540	-12.33%	-1,050	1,028	7,751,120	15,502	0.20%	7,593	52.78	-9.55%	-800	-822,400
237	7,530	-12.44%	-1,070	1,029	7,748,370	15,497	0.20%	7,593	52.71	-9.71%	-810	-833,490
238	7,520	-12.56%	-1,090	1,031	7,753,120	15,506	0.20%	7,593	52.64	-8.83%	-820	-845,420
239	7,510	-12.67%	-1,090	1,032	7,750,320	15,501	0.20%	7,593	52.57	-9.95%	-830	-858,560
240	7,500	-12.79%	-1,100	1,034	7,753,000	15,510	0.20%	7,593	52.50	-10.07%	-840	-868,960
241	7,490	-12.91%	-1,110	1,035	7,752,150	15,504	0.20%	7,542	52.43	-10.19%	-850	-879,750
242	7,480	-13.02%	-1,120	1,036	7,748,280	15,499	0.20%	7,532	52.36	-10.31%	-860	-890,960
243	7,470	-13.14%	-1,130	1,038	7,753,850	15,508	0.20%	7,522	52.29	-10.43%	-870	-903,060
244	7,460	-13.26%	-1,140	1,039	7,750,940	15,502	0.20%	7,512	52.22	-10.55%	-880	-914,320
245	7,450	-13.37%	-1,150	1,040	7,748,000	15,496	0.20%	7,502	52.15	-10.67%	-890	-925,600
246	7,440	-13.49%	-1,160	1,042	7,752,480	15,505	0.20%	7,492	52.08	-10.79%	-900	-937,000
247	7,430	-13.60%	-1,170	1,043	7,749,480	15,499	0.20%	7,482	52.01	-10.91%	-910	-949,300
248	7,420	-13.72%	-1,180	1,045	7,753,800	15,502	0.20%	7,472	51.94	-11.03%	-920	-961,000
249	7,410	-13.84%	-1,190	1,046	7,750,800	15,495	0.20%	7,462	51.87	-11.15%	-930	-972,400
250	7,400	-13.95%	-1,200	1,047	7,747,800	15,488	0.20%	7,452	51.80	-11.27%	-940	-984,100
251	7,390	-14.07%	-1,210	1,049	7,759,110	15,504	0.20%	7,442	51.73	-11.39%	-950	-995,950
252	7,380	-14.19%	-1,220	1,050	7,755,000	15,498	0.20%	7,432	51.66	-11.51%	-960	-1,008,000
253	7,370	-14.30%	-1,230	1,052	7,753,240	15,505	0.20%	7,422	51.59	-11.63%	-970	-1,020,000
254	7,360	-14.42%	-1,240	1,053	7,753,080	15,500	0.20%	7,412	51.52	-11.75%	-980	-1,032,000
255	7,350	-14.53%	-1,250	1,055	7,754,250	15,509	0.20%	7,402	51.45	-11.87%	-990	-1,044,000
256	7,340	-14.65%	-1,260	1,056	7,751,040	15,502	0.20%	7,392	51.38	-11.99%	-1,000	-1,056,000
257	7,330	-14.77%	-1,270	1,057	7,747,810	15,496	0.20%	7,382	51.31	-12.11%	-1,010	-1,067,570
258	7,320	-14.88%	-1,280	1,058	7,751,880	15,504	0.20%	7,372	51.24	-12.23%	-1,020	-1,080,180
259	7,310	-15.00%	-1,290	1,060	7,748,600	15,497	0.20%	7,362	51.17	-12.35%	-1,030	-1,091,800

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FIG. 18

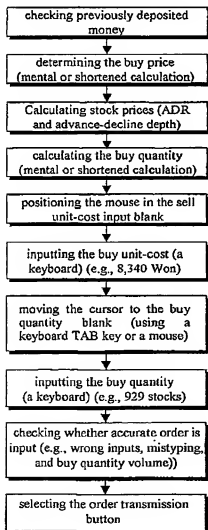
set quantity	nominal price	key quantity	key price per %	total price R\$	distance relative depth	key quantity	total key price	commission	break-even point	break-even difference	winning rate	profit and loss depth	bid profit not loss
100%	23,500.00	▲											
95%	23,555.00	← 2400	9.60	15,000	1,200	704	7,262.76	15.50	61.2	61.7	18.5%	1.50	125,500
90%	23,630.00		9.81	15,012	1,204	705	7,291.94	15.50	61.0	61.2	18.5%	1.50	125,594
85%	23,705.00		9.70	14,718	1,200	705	7,471.50	15.45	61.0	61.1	18.3%	1.50	126,050
80%	23,780.00		9.60	14,553	1,200	705	7,740.50	15.50	61.0	61.0	18.2%	1.50	126,470
95%	23,500.00	8.00	9.65	14,535	1,200	705	7,280.50	15.54	61.1	61.3	18.1%	1.50	126,370
90%	23,555.00		9.40	14,428	1,204	705	7,453.00	15.50	61.0	61.8	17.9%	1.50	126,800
85%	23,630.00		9.30	14,358	1,200	705	7,740.50	15.45	60.8	61.9	17.8%	1.50	127,250
80%	23,705.00		9.20	14,193	1,200	705	8,010.00	15.40	60.8	61.9	17.7%	1.50	127,700
94%	23,505.00	10,150	9.60	14,535	1,200	705	7,280.50	15.54	61.1	61.3	18.1%	1.50	126,370
93%	23,555.00		9.40	14,428	1,204	705	7,453.00	15.50	61.0	61.8	17.9%	1.50	126,800
92%	23,600.00		9.30	14,358	1,200	705	7,740.50	15.45	60.8	61.9	17.8%	1.50	127,250
91%	23,650.00		9.20	14,193	1,200	705	8,010.00	15.40	60.8	61.9	17.7%	1.50	127,700
90%	23,700.00	bid remainder 23,650	9.20	13,854	1,190	702	7,353.00	15.50	61.5	61.5	17.5%	1.50	128,400
89%	23,750.00		9.20	13,728	1,180	702	7,653.00	15.50	61.3	61.4	17.3%	1.40	128,850
88%	23,800.00		9.10	13,602	1,170	702	7,953.00	15.45	61.3	61.4	17.2%	1.40	129,300
87%	23,850.00		9.00	13,476	1,160	702	8,253.00	15.40	61.3	61.3	17.0%	1.40	129,750
86%	23,900.00	125-45-67890	8.90	13,350	1,150	702	8,553.00	15.35	61.3	61.3	16.9%	1.40	130,200
85%	23,950.00		8.80	13,224	1,140	702	8,853.00	15.30	61.3	61.2	16.7%	1.40	130,650
84%	24,000.00		8.70	13,098	1,130	702	9,153.00	15.25	61.3	61.2	16.6%	1.40	131,100
83%	24,050.00		8.60	12,972	1,120	702	9,453.00	15.20	61.3	61.1	16.5%	1.40	131,550
82%	24,100.00	1245 Mustang Securities Corp	8.50	12,846	1,110	702	9,753.00	15.15	61.3	61.0	16.4%	1.40	132,000
81%	24,150.00		8.40	12,720	1,100	702	10,053.00	15.10	61.3	60.9	16.3%	1.40	132,450
80%	24,200.00		8.30	12,594	1,090	702	10,353.00	15.05	61.3	60.8	16.2%	1.40	132,900
79%	24,250.00		8.20	12,468	1,080	702	10,653.00	15.00	61.3	60.7	16.1%	1.40	133,350
78%	24,300.00	order transfer	8.10	12,342	1,070	702	10,953.00	14.95	61.3	60.6	16.0%	1.40	133,800
77%	24,350.00		8.00	12,216	1,060	702	11,253.00	14.90	61.3	60.5	15.9%	1.40	134,250
76%	24,400.00		7.90	12,090	1,050	702	11,553.00	14.85	61.3	60.4	15.8%	1.40	134,700
75%	24,450.00		7.80	11,964	1,040	702	11,853.00	14.80	61.3	60.3	15.7%	1.40	135,150
74%	24,500.00	order transfer	7.70	11,838	1,030	702	12,153.00	14.75	61.3	60.2	15.6%	1.40	135,600
73%	24,550.00		7.60	11,712	1,020	702	12,453.00	14.70	61.3	60.1	15.5%	1.40	136,050
72%	24,600.00		7.50	11,586	1,010	702	12,753.00	14.65	61.3	60.0	15.4%	1.40	136,500
71%	24,650.00		7.40	11,460	1,000	702	13,053.00	14.60	61.3	59.9	15.3%	1.40	136,950
70%	24,700.00	order transfer	7.30	11,334	990	702	13,353.00	14.55	61.3	59.8	15.2%	1.40	137,400
69%	24,750.00		7.20	11,208	980	702	13,653.00	14.50	61.3	59.7	15.1%	1.40	137,850
68%	24,800.00		7.10	11,082	970	702	13,953.00	14.45	61.3	59.6	15.0%	1.40	138,300
67%	24,850.00		7.00	10,956	960	702	14,253.00	14.40	61.3	59.5	14.9%	1.40	138,750
66%	24,900.00	order transfer	6.90	10,830	950	702	14,553.00	14.35	61.3	59.4	14.8%	1.40	139,200
65%	24,950.00		6.80	10,704	940	702	14,853.00	14.30	61.3	59.3	14.7%	1.40	139,650
64%	25,000.00		6.70	10,578	930	702	15,153.00	14.25	61.3	59.2	14.6%	1.40	140,100
63%	25,050.00		6.60	10,452	920	702	15,453.00	14.20	61.3	59.1	14.5%	1.40	140,550
62%	25,100.00	order transfer	6.50	10,326	910	702	15,753.00	14.15	61.3	59.0	14.4%	1.40	141,000
61%	25,150.00		6.40	10,200	900	702	16,053.00	14.10	61.3	58.9	14.3%	1.40	141,450
60%	25,200.00		6.30	10,074	890	702	16,353.00	14.05	61.3	58.8	14.2%	1.40	141,900
59%	25,250.00		6.20	9,948	880	702	16,653.00	14.00	61.3	58.7	14.1%	1.40	142,350
58%	25,300.00	order transfer	6.10	9,822	870	702	16,953.00	13.95	61.3	58.6	14.0%	1.40	142,800
57%	25,350.00		6.00	9,696	860	702	17,253.00	13.90	61.3	58.5	13.9%	1.40	143,250
56%	25,400.00		5.90	9,570	850	702	17,553.00	13.85	61.3	58.4	13.8%	1.40	143,700
55%	25,450.00		5.80	9,444	840	702	17,853.00	13.80	61.3	58.3	13.7%	1.40	144,150
54%	25,500.00	order transfer	5.70	9,318	830	702	18,153.00	13.75	61.3	58.2	13.6%	1.40	144,600
53%	25,550.00		5.60	9,192	820	702	18,453.00	13.70	61.3	58.1	13.5%	1.40	145,050
52%	25,600.00		5.50	9,066	810	702	18,753.00	13.65	61.3	58.0	13.4%	1.40	145,500
51%	25,650.00		5.40	8,940	800	702	19,053.00	13.60	61.3	57.9	13.3%	1.40	145,950
50%	25,700.00	order transfer	5.30	8,814	790	702	19,353.00	13.55	61.3	57.8	13.2%	1.40	146,400
49%	25,750.00		5.20	8,688	780	702	19,653.00	13.50	61.3	57.7	13.1%	1.40	146,850
48%	25,800.00		5.10	8,562	770	702	19,953.00	13.45	61.3	57.6	13.0%	1.40	147,300
47%	25,850.00		5.00	8,436	760	702	20,253.00	13.40	61.3	57.5	12.9%	1.40	147,750
46%	25,900.00	order transfer	4.90	8,310	750	702	20,553.00	13.35	61.3	57.4	12.8%	1.40	148,200
45%	25,950.00		4.80	8,184	740	702	20,853.00	13.30	61.3	57.3	12.7%	1.40	148,650
44%	26,000.00		4.70	8,058	730	702	21,153.00	13.25	61.3	57.2	12.6%	1.40	149,100
43%	26,050.00		4.60	7,932	720	702	21,453.00	13.20	61.3	57.1	12.5%	1.40	149,550
42%	26,100.00	order transfer	4.50	7,806	710	702	21,753.00	13.15	61.3	57.0	12.4%	1.40	150,000
41%	26,150.00		4.40	7,680	700	702	22,053.00	13.10	61.3	56.9	12.3%	1.40	150,450
40%	26,200.00		4.30	7,554	690	702	22,353.00	13.05	61.3	56.8	12.2%	1.40	150,900
39%	26,250.00		4.20	7,428	680	702	22,653.00	13.00	61.3	56.7	12.1%	1.40	151,350
38%	26,300.00	order transfer	4.10	7,302	670	702	22,953.00	12.95	61.3	56.6	12.0%	1.40	151,800
37%	26,350.00		4.00	7,176	660	702	23,253.00	12.90	61.3	56.5	11.9%	1.40	152,250
36%	26,400.00		3.90	7,050	650	702	23,553.00	12.85	61.3	56.4	11.8%	1.40	152,700
35%	26,450.00		3.80	6,924	640	702	23,853.00	12.80	61.3	56.3	11.7%	1.40	153,150
34%	26,500.00	order transfer	3.70	6,798	630	702	24,153.00	12.75	61.3	56.2	11.6%	1.40	153,600
33%	26,550.00		3.60	6,672	620	702	24,453.00	12.70	61.3	56.1	11.5%	1.40	154,050
32%	26,600.00		3.50	6,546	610	702	24,753.00	12.65	61.3	56.0	11.4%	1.40	154,500
31%	26,650.00		3.40	6,420	600	702	25,053.00	12.60	61.3	55.9	11.3%	1.40	154,950
30%	26,700.00	order transfer	3.30	6,294	590	702	25,353.00	12.55	61.3	55.8	11.2%	1.40	155,400
29%	26,750.00		3.20	6,168	580	702	25,653.00	12.50	61.3	55.7	11.1%	1.40	155,850
28%	26,800.00		3.10	6,042	570	702	25,953.00	12.45	61.3	55.6	11.0%	1.40	156,300
27%	26,850.00		3.00	5,916	560	702	26,253.00	12.40	61.3	55.5	10.9%	1.40	156,750
26%	26,900.00	order transfer	2.90	5,790	550	702	26,553.00	12.35	61.3	55.4	10.8%	1.40	157,200
25%	26,950.00		2.80	5,664	540	702	26,853.00	12.30	61.3	55.3	10.7%	1.40	157,650
24%	27,000.00		2.70	5,538	530	702	27,153.00	12.25	61.3	55.2	10.6%	1.40	158,100
23%	27,050.00		2.60	5,412	520	702	27,453.00	12.20	61.3	55.1	10.5%	1.40	158,550
22%	27,100.00	order transfer	2.50	5,286	510	702	27,753.00	12.15	61.3	55.0	10.4%	1.40	159,000
21%	27,150.00		2.40	5,160	500	702	28,053.00	12.10	61.3	54.9	10.3%	1.40	159,450
20%	27,200.00		2.30	5,034	490	702	28,353.00	12.05	61.3	54.8	10.2%	1.40	159,900
19%	27,250.00		2.20	4,908	480	702	28,653.00	12.00	61.3	54.7	10.1%	1.40	160,350
18%	27,300.00	order transfer	2.10	4,782	470	702	28,953.00	11.95	61.3	54.6	10.0%	1.40	160,800
17%	27,350.00		2.00	4,656	460	702	29,253.00	11.90	61.3	54.5	9.9%	1.40	161,250
16%	27,400.00		1.90	4,530	450	702	29,553.00	11.85	61.				

30/30

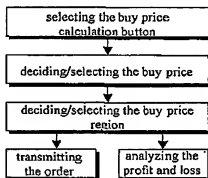
FIG. 19

Comparison of buy order processConventional method

- time required: more than 15secs. (except detailed calculation)
- manual operation/eye operation: more than 10 times/more than 4 times
- input error checking: requiring precise checking

Remedy according to present invention

- time required: 1 to 2 secs.
- manual operation/eye operation required for order inputting: once/once
- input error checking: not necessary



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 02/00406

CLASSIFICATION OF SUBJECT MATTER		
IPC ⁷ : G06F 17/60		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC ⁷ : G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
wpi paj		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6078904 A (Rebane) 20 June 2000 (20.06.00) <i>the whole document.</i>	1-18
A	WO 97/0441 (Citibank) February 1997 (06.02.97) <i>the whole document.</i>	1-18
A	DE 10028238 A1 (IBM) 22 February 2001 (22.02.01) <i>the whole document.</i>	1,2,8,9,11,13
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search		Date of mailing of the international search report
30 April 2002 (30.04.2002)		25 June 2002 (25.06.2002)
Name and mailing address of the ISA/AT Austrian Patent Office Kohlmarkt 8-10; A-1014 Vienna		Authorized officer WERNER
Facsimile No. 1/53424/535		Telephone No. 1/53424/357
Form PCT/ISA/210 (second sheet) (July 1998)		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCI/KR 02/00406-0

Patent document cited in search report			Publication date		Patent family member(s)		Publication date
DE	A1	10028238	22-02-2001	CN	A	1276672	13-12-2000
				JP	A2	01034679	09-02-2001
US	A	6078904	20-06-2000			none	
NO	A	970441				none	

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